



GRETA™ by alchemia-nova

The pot-based green wall for
purification of rain- or greywater

ABOUT GRETA™

GRETA™ is a pot-based green wall technology for the purification of rain- or greywater. The vertical green system is ideal for urban and peri-urban areas with limited space available. With the employment of specific substrates as well as plant species in a special sequence the cleansing of polluted water is encouraged through microbiological activity occurring in the root-zone.

This cost-effective water treatment solution provides water purification with low energy consumption. Besides the production of treated water for reuse in plant irrigation, toilet flushing or washing laundry, Co-benefits include reduction of the urban heat island effect through evapotranspiration, insulation effects for buildings, increased biodiversity and of course aesthetics.

HOW IT WORKS

Grey- or rainwater is pumped to the uppermost of the rows of the vertical green wall system and leaks down through the soil in the pots. The microbial conversion processes at the plant roots assist in the removal of contaminants by converting them into available nutrients taken up by the plant. Hence the water is purified and can, after ozonation, be reused for toilet flushing, washing laundry or plant irrigation.



CONTACT US

**Please contact us to find out
how GRETA™ could be the
perfect solution for
wastewater management in
your operation:**

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**alchemia
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ABOUT alchemia-nova

alchemia-nova is an independent research company based in Vienna, Austria and Thessaloniki, Greece, that focuses on sustainable development and innovative solutions in the fields of systemic thinking, bioeconomy, water and Nature based Solutions. We conduct research and develop projects aimed at creating a regenerative, circular economy that minimizes waste and maximizes resource efficiency. We offer consulting services, workshops, and educational programs on the above topics, to help spread knowledge and promote sustainable practices.