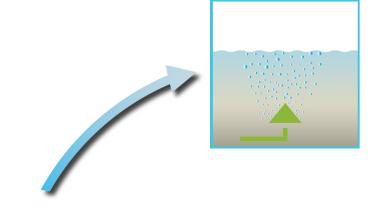
## Advanced wastewater treatment systems



# 3. Clear water extraction

The treated clear water is extracted from the system and the cleaning process can begin once more.



The wastewater arrives directly in the biological zone without the need for pumping processes. Aeration of the entire container leads to immediate wastewater activation. The microorganisms begin the biological cleaning process without delay.







### 2. Settling phase

Aeration is interrupted by the control unit, the activated sludge sinks to the bottom. A clear water zone develops in the upper part of the container.



Fixed bed systems

Sludge activation systems



\*Based on a 5PE GRAF advanced treatment plant

### Minimal power consumption per inhabitant<sup>1)</sup>

1)The diagram indicates the annual power consumption of various wastewater treatment systems. Source: "wwt", edition 6/2007 "The wastewater treatment system as a permanent solution", page 15, table 3, practical data; Advanced Wastewater Treatment system test report by PIA (Prüfinstitut für Abwassertechnik GmbH, Testing Institute for Wastewater Technology), Aachen, test number PIA2011-141B15