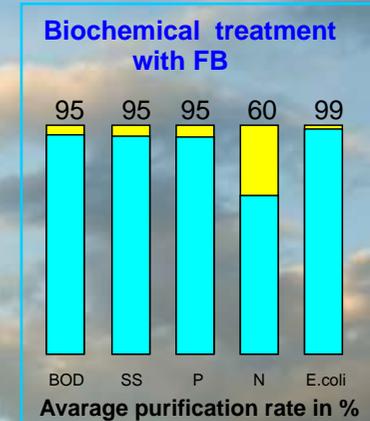
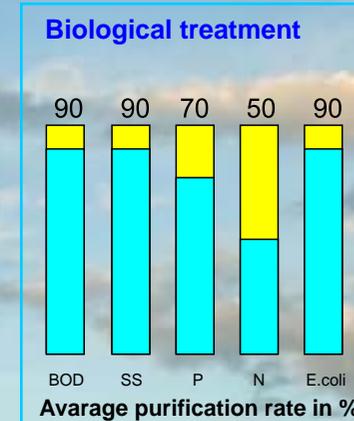
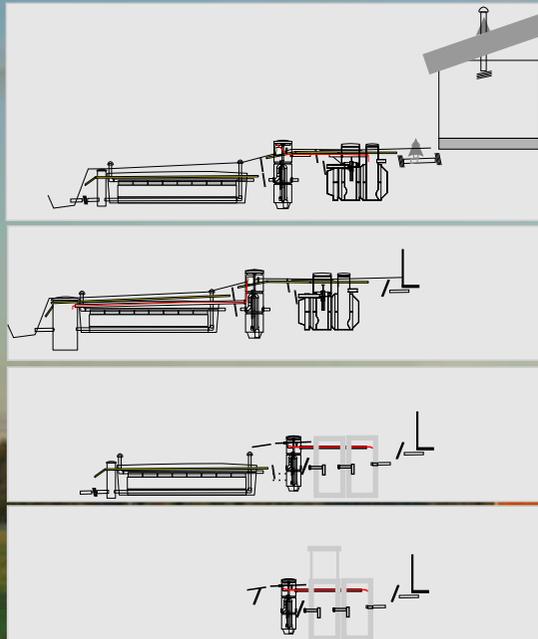


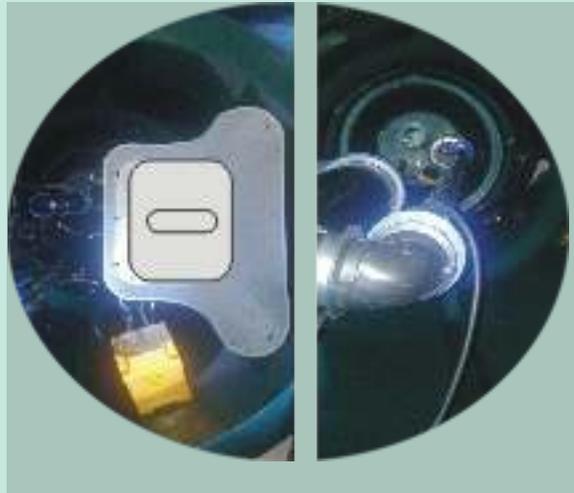
FB

(=Feeding in Batches system)



Sustainable development solutions in environmental technology:

Waste water treatment with FB system 1 - 100 households



FB (=Feeding chemical in Batches system by RAITA)

Method:

FB method is specially developed by Raita for accelerating biological processes with chemicalization. FB measures incoming waste water amount and automatically doses needed amount of chemical into process. Waste water is measured with pump and chemical is dosed according to batches pumped.

Applications:

FB is used for dosing precipitation chemical (f.ex for phosphorous removal) with biological processes.

The purification result is increased with precise dosing.

Straightforward operation of the system:

- chemical container (f.ex 20 l) can be easily changed
- precipitated phosphorus (nutrient) can be removed together with sludge
- the plant is monitored by visual checking once a month (5 minutes)
- excess sludge is emptied from the precipitation tank according to needed (once in 1-2 years)

Low running costs:

- energy consumption is appr. 0,1-0,2 kwh for every treated m3 of wastewater
- chemical cost is minimized by precise dosing and good mixing
- the chemical pump is served in every 3-4 years by changing a rubber tube.

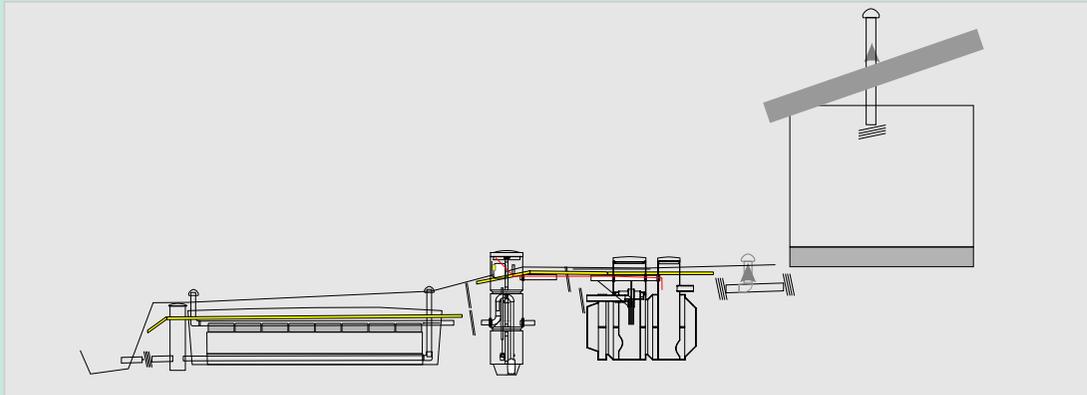
Our delivery of the plant is complete:

- installation, (if agreed)
- start up
- training of users

Models, capacity

Model	Capacity litre/ 24 h
FB 5000	- 5000
FB 10000	5000-10000
FB 15000	10000-15000
FB 20000	15000-20000

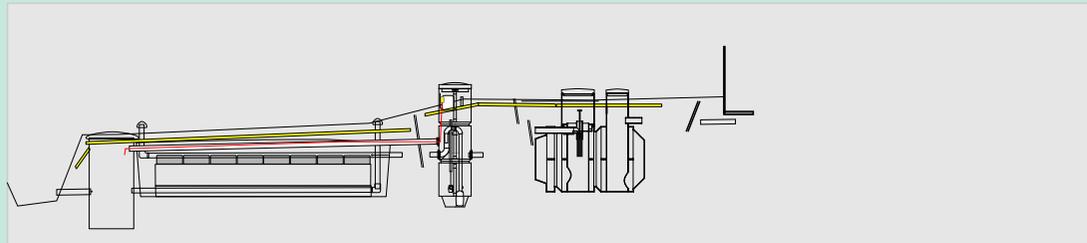
FB is suitable for most of the sewage treatment methods:



FB is compatible with many treatment systems. It is used to improve biological treatment method with additional chemical process.

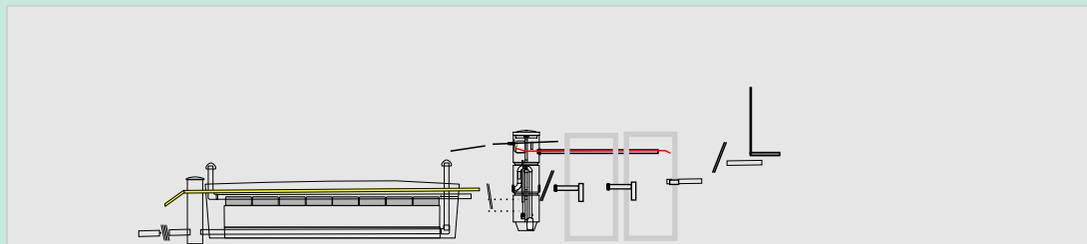
FB is used with **BioModule system**, with **traditional filtration system** or with **biological sewage plants** (trickling filter, activated sludge, biorotor etc)

FB measures waterflow (f.ex after the precipitation tank) and doses precisely chemical in the precipitation container (f.ex precipitation tank first in line).

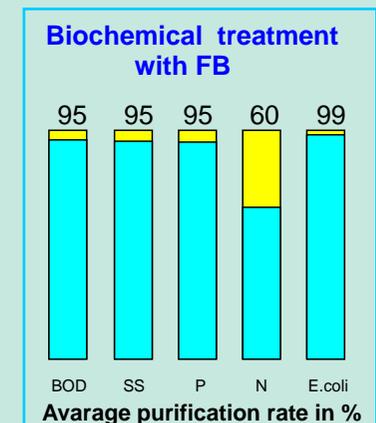
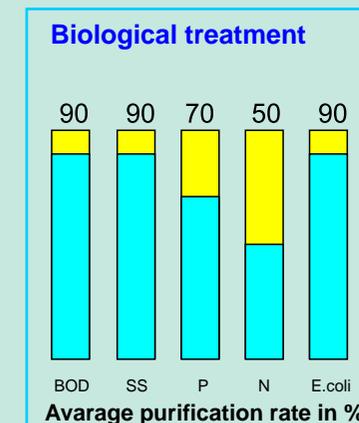
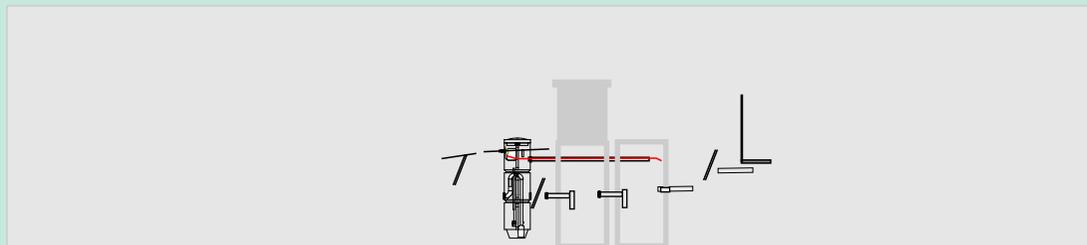


Phosphorus is **simultaneously** precipitated in tank together with precipitated sludge and together removed by sludge hauler to municipal sludge treatment system.

Pre-treated sewage is fed to the biological system in small batches and spread out evenly to all of the infiltration area.



Alternative use is dosing chemical in the settling tank placed after the biological treatment (**post precipitation**).



environment **RAITA technology** is a company specialised in environmental technology.

the company's products and methods are based on long-time experience in the environmental technology field. The business was established in the early 1950s as a provider of water purification equipment and expanded in the 1960s to include waste treatment equipment, in the 1970s to include a permit for biological W c systems, and in the 1980s to com - posting. in addition to the sale of individual products, the business has included delivery of overall processes for more challenging sites. today, We offer customers extensively - developed environmental technology solutions for waste water treatment solutions for sparsely populated areas, -

Our devices are high-quality systems developed in F in land.

A successful implementation is the result of a delivery chain realised by collaboration between professionals in the field. it includes:

1. mapping out the customer's needs
2. professional, customer-oriented planning (in collaboration with an independent designer)
3. high-quality technical implementation and equipment installation (in collaboration with an independent implementation frm)
4. flexible maintenance service "tailored" to the customer's needs

Contact us to learn more about implementation of Raita's sustainable solutions.

