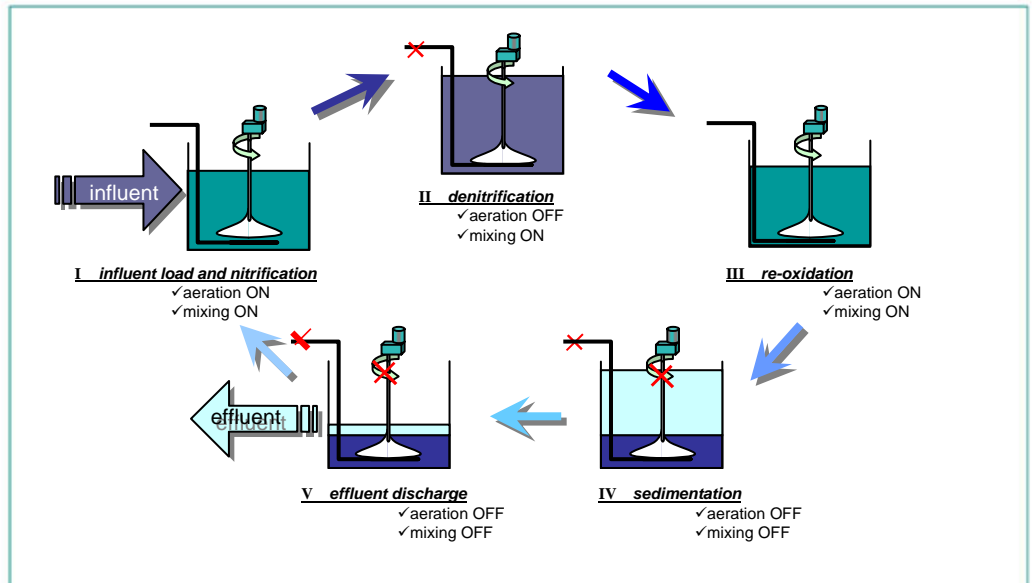




Advanced SBR

Austep has a consolidated know how in the application of the SBR technology, integrated with special mixing and aeration systems in the biological oxidation.



PROCESS DESCRIPTION

The influent wastewater enters the equalization basin and is loaded into the oxidation basin during the programmed load time (I).

Both aerating and mixing or only mixing phases allow nitrification and denitrification (II) of the nitrogen present in the wastewater.

At the end of the treatment, aeration and mixing stop and the biological sludge sediments (IV) into the reactor.

Effluent discharge is operated by an internal floating clarifier (V).



AUSTEP

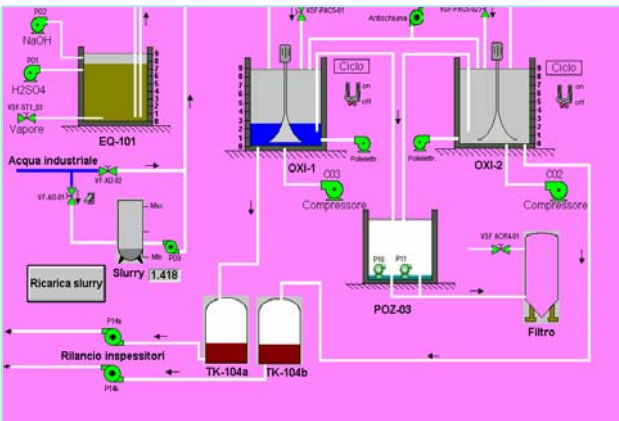
EXTANT ENVIRONMENTAL SOLUTIONS



Applications

- Wastewater from mechanical industry with scavenging oil
- Leachate treatment
- Food industry
- Chemical industry

- Not excessive wastewater flows.
- Wastewater with refractory compounds.
- Nutrients removal by nitrification and de-nitrification.
- High efficiency demand



Advantages

- Extremely compact and flexible
- High efficiency, especially for refractory streams.
- Complete automation and remote operation of the plant.
- No bulking problems.
- No recirculation pumps and minor energetic consumption.
- High reliability and easy operating.



Integration with innovative mixing and aeration systems

SBR Plants need a good mixing and a non-clogging aeration system because sludge sedimentation occurs directly in the oxidation basin.

Austep applies special aeration and mixing systems by Invent GmbH. They achieve good mixing and oxygen transfer with little energy consumption.

The system is able to do aeration or only mixing and is a proper solution for batch biological systems.

Austep srl

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