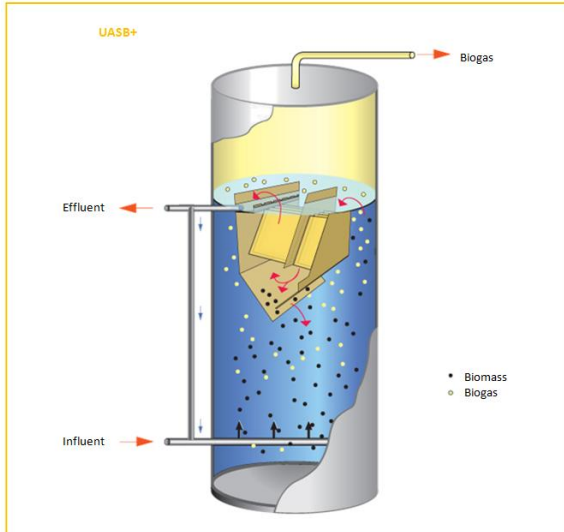


# UASB+



The technology applied in the UASB + reactor is a method of anaerobic digestion of the organic load of wastewater, resulting in biogas and granular sludge (granules) production. The reactor is named after the upward flow of the raw wastewater, through an anaerobic sludge layer, in which anaerobic microorganisms are grown, that break down the waste. This layer of sludge that tends to settle, in conjunction with the upward flow of wastewater, creates the conditions for

selective growth of anaerobic microorganisms that are able to grow only by contact, by attaching to one another, so as to form dense spherical structures (granules) of 0,5 - 2 mm.

Advantages of UASB+:

Simple and robust influent distribution system that is proven to be effective at more than 300 references worldwide, and ensures optimal mixing of biomass and wastewater.

Fluctuating loads and flows can be easily handled.

No odor emission due to closed reactor design.

The design of the reactor results in:

High efficiency rate of effluent, sludge and biogas separation

Separation in different stages of sludge / effluent and biogas / effluent

Increased settling area for optimal biomass retention

Built-in cleaning nozzles to minimize the risk of clogging

Modular design (installation in new or existing tanks) using materials with lifetime of over 20 years