Environmental Technology – Water & Sludge



GMR – Gas Mixed Reactor

Description:

Anaerobic degradation of organic compounds is very efficient for highly loaded well degardable organic compounds with limited salt concentration. Organic ingredients are transformed into methane and carbon dioxide.

Effluent from washing of sugarbeets is highly loaded with well degradable organic substances and calcium salts at the same time. During degradation calciumcarbonate is formed, tending to crystallize inside the reactor on the equipment. Especially stirrers are affected, when salts crystallize on the blades.

Our gas mixed reactor (GMR) compresses the biogas and leads it back to the center of the methane reactor. Consequently, good mixing is achieved, while the equipment is not affected, operating well within the sugar campaign.

This technology is well established in the sugar industry. In the last three years, we have equipped three sites with new gas mixed reactors and the additional equipment.

Advantages:

- ► Reliable operation.
- ► Compact design.
- ► Approved process.
- ▶ Three references for BHU.



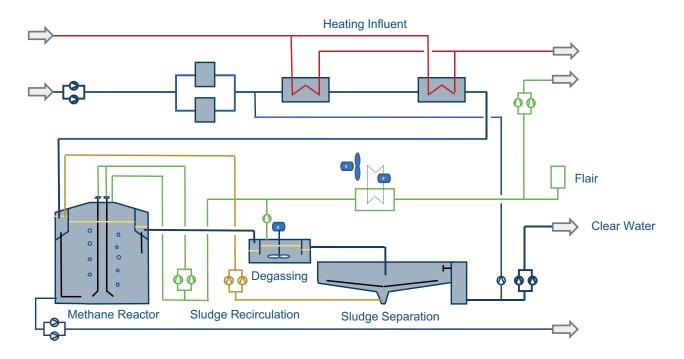
Sludge thickening



Environmental Technology – Water & Sludge

Technical data:

- ➤ Volume flows between 50 and 250 m³/h for each system.
- ► Loading usually 9 to 12 kg COD/ (m³ x d).
- ▶ Reactor in emaille or stainless steel.
- ▶ Piping usually in 1.4571





BHU Umwelttechnik GmbH

Einsteinstraße 57 71229 Leonberg Germany Tel.+49 (0)7152/3535465 info@bhu-et.de www.bhu-et.com

Management Board: Stefan Koeppl Dr. Alessandro Meda