



Proven Mixing Technology – “Kreis-Biogas-Dissolver”

Planning

Construction

Start-up

Operation

Service



Acceleration of the gas production

With this new mixing technology operators of biogas plants can clearly accelerate their gas production and thereby achieve higher gas yield. In direct comparison with a conventional biogas plant, equipped with a conventional breakdown unit for coarse and fiber material, the plant equipped with a Kreis-Biogas-Dissolver delivers additional earnings of more than 10% on average while hardly increasing its own requirements for electricity (3.89%) by comparison with a conventional plant (3.87%). The power consumption sums up to less than 6 kWh per ton of maize silage.

A rotary cutter shreds the input material in the Kreis-Biogas-Dissolver

In the interior of the system that resembles a food processor, a high-speed rotary cutter very thoroughly shreds the input material. Corn kernels completely break up after around two minutes mixing time and form a homogenous mass, whereby the cell content material is immediately available for biogas production. The optimal feed-in of the materials is guaranteed by using a weighing system which is PC controlled.

Advantages for the biogas plant operator

- + Reducing substrate by achieving higher gas yields
- + Higher digester utilization due to shorter retention times
- + Saving of agitator power in the digester
- + Better control of the digester through rapid gas availability
- + Stable plant operation and therefore lower gas losses and higher CHP utilization
- + Minimization of settling in the digester

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