PRODUCT DATA SHEET





PlanET Retictor®

Optimal use of the substrate for your biogas plant

www.planet-biogas.com

Up to 25% more vield

GENERATE UP TO 25% MORE BIOGAS

PlanET Retictor®

"The PlanET Retictor provides my biogas plant with a significantly higher yield of biogas; in the short and long term."

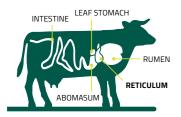
Application

- → Capacity expansion of existing plants
- → Seasonal energy peaks
- → In case of insufficient retention time in the digester

Bionics: Nature as a role model

Cows and other ruminants do not waste any food. Food which is hard to digest is filtered in the animal's reticulum. The solid components are chewed again in the mouth and then returned to the digestive organs.

Our research and development department at PlanET has taken this as a model and designed the PlanET Retictor®. This innovative technology separates fiber-rich and difficult to decompose substrates from already decomposed ones and feeds it back into the digester.



More resistant biology in the biogas plant

The process which is a protected procedure by PlanET ensures the concentration and controlled recirculation of the nutrient substances for a more resistant biology in the plant. The used substrate is efficiently converted into biogas.

Advantages for existing plants

- ✓ Increase of digester efficiency
- ✓ More economical substrate utilization
- ✓ Reduced substrate demand
- ✓ Preservation of valuable microorganisms
- Selective extension of dwell time
- Separation of fermented organic material
- ✓ Recycling of substrates which contain nutrients
- Closed separation system prevents odor emission
- Low operating costs
- ✓ Reliable operation due to robust control system

Simple and fast assembly

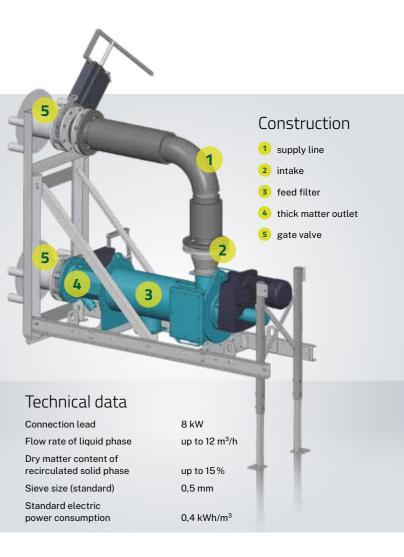
Without much effort, the PlanET Retictor® is mounted directly on the wall of your digester or secondary digester. The substrate is fed directly from the top. The separator's screw conveys back the thickened material up to 15% total solids. An additional installed pump takes care of the discharge of the liquid fermentation

Example A: 750 kW biogas plant

	BEFORE	AFTER
Feeding	44 t/d	40 t/d
Cost savings		up to 1.460 t/a corn
Electric power consumption red.		by approx. 91.000 kWh due to savings in the agitator

FURTHER ADVANTAGES

- ✓ Up to 10% longer retention time in the digester and secondary digester
- ✓ Optimal utilization of the used substrate with the same biogas yield
- Results based on a reference plant running for about one year.



residues to the storage. This new innovation with a standardized interface makes it easier to optimize your plant at low cost. A special control system automates the technology and ensures quiet and low-failure operation.

	BEFORE	AFTER
ower	60 kW	up to 75 kW
eeding	32 m³/d	25 m³/d
iogas yield	25 m ³ /t FM	34 m ³ /t FM
	GES	

Do you want to calculate the possibilities for your biogas plant? Get in touch with us!





Benefit from more than 20 years of experience in planning, permitting, engineering, biogas plant construction, development of technical components and industry solutions, biological service and much more.

With our teams, we implement holistic concepts professionally and in a solution-oriented manner.

More than 870 biogas plants worldwide (from 75 kW plants up to four MW industrial plants) speak for themselves.

We look forward to receiving your call or message.

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