



BIOLAK® Technology GmbH
COMPETENCE IN WATER AND RENEWABLE ENERGY



BIOLAK® GAS Solid System

Biogas from organic residues





What is BIOLAK[®]GAS Solid?

BIOLAK[®]GAS Solid is a modern biogas plant specially designed for treatment of organic residues. Its innovative design allows virtually maintenance-free mixing system of the fermenter.



BIOLAK[®]GAS Solid plant for distillery, approx. 4.500 t/a Whiskey draff, 650 kW/h

Fields of application

Typical substrates for BIOLAK[®]GAS Solid are organic materials such as:

Waste from agribusiness

Waste from beverage and food industry

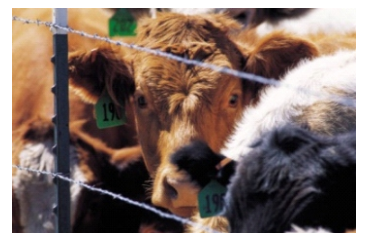
Sludge from wastewater treatment plants

Municipal organic waste

Waste from diesel production

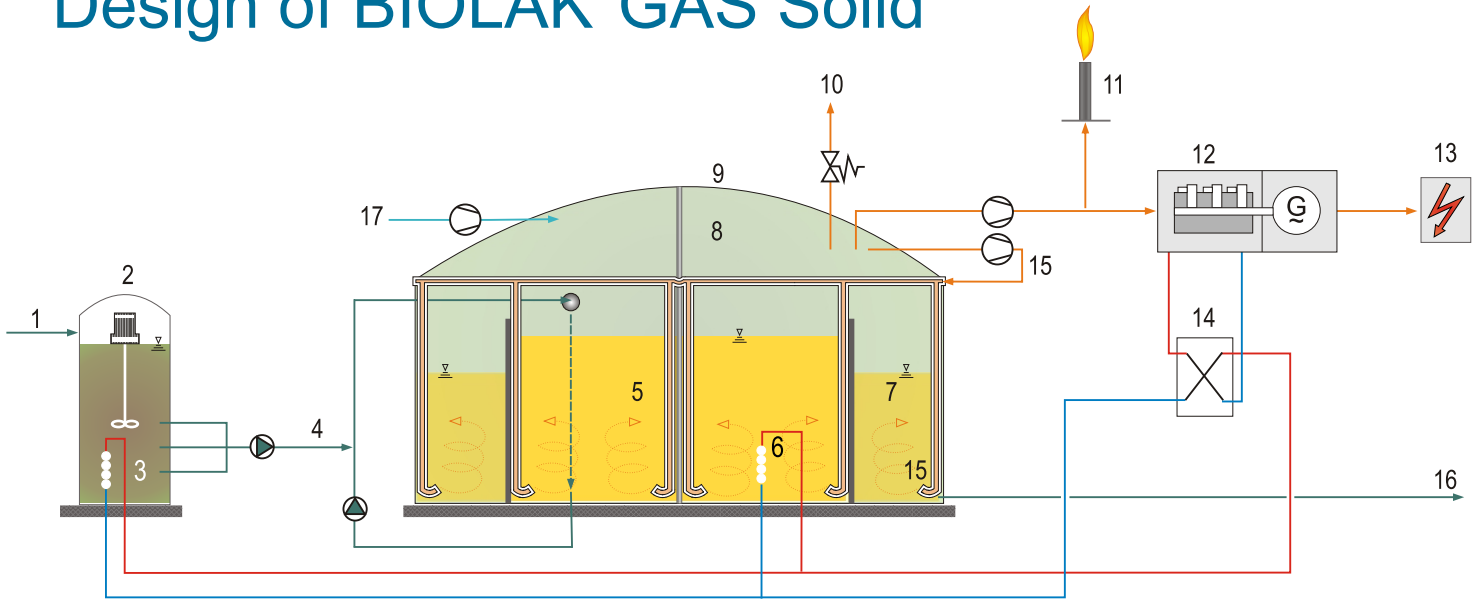
Waste from slaughter houses and similar

Renewable raw materials



BIOLAK[®]GAS Solid will be implemented when the dry matter content of the organic waste (DS) is approx. 10 to 14%.

Design of BIOLAK[®] GAS Solid



- | | |
|---|------------------------------------|
| 1 Inlet | 10 Safety valve |
| 2 Preacidification | 11 Flare |
| 3 Preacidification heater | 12 Combined heat and power station |
| 4 Fermenter feed | 13 Power supply |
| 5 Fermenter | 14 Heat energy distribution |
| 6 Fermenter heater | 15 Gas circulation for mixing |
| 7 Postfermenter storage | 16 Substrate removal |
| 8 Gas chamber | 17 Air to desulphurization |
| 9 Storm and UV resistance all-weather cover | |

Maximum energy yield

Robust and compact plants

Optimal circulation system

High process stability

Low investment and operating costs

Easy maintenance



Preacidification

In the preacidification, the first decomposition stage takes place. The substrate will hydrolyzed and acidified.



Reactor

It is an integrated system consisting of an inner and an outer cylinder. Inside the fermentation takes place. The outer cylinder serves as a post fermenter.



Recirculation system

By not using mechanical mixing units, the gas circulation is virtually maintenance free. Due to the design of the gas lines, deposits and precipitates can be easily removed at the bottom.



Gas chamber

Biogas produced, will be stored under the special double-layered hood. By blowing aerial oxygen into the gas area, hydrogen sulphide in the biogas will be biologically eliminated.



BIOLAK® Technology GmbH
COMPETENCE IN WATER AND RENEWABLE ENERGY



Contact

BIOLAK® Technology GmbH
Killistrasse 3
85658 Eggenmating-Muenster
Germany
Phone +49 (0) 8093 902 40 0
Fax +49 (0) 8093 902 40 91
info@biolak.de
www.biolak.de

Representatives

Bosnia-Herzegovina
Bulgaria
China, Hongkong
Croatia
Egypt
Hungary
India
Iran
Latin America
Montenegro
Poland
Romania
Saudi-Arabia
Serbia
South Africa
Syria
Turkey

