



**AGRIPURE**  
The system for biogas upgrading.



# A perfect system: agriPure

## Biogas plant and - upgrading

### Technology to the cutting edge

The innovative and environmentally friendly biogas upgrading plant agriPure was developed by agriKomp in cooperation with VORWERK-ASA GmbH, a subsidiary of the FRIEDRICH VORWERK Group. The biogas upgrading process converts biogas produced by fermentation into biomethane by using special membranes. The membrane system has excellent separating properties and is based on the different flow-through speed and solution behavior of the gases. Thus, the raw biogas runs through several sophisticated technical steps before it enters the public gas grid in natural gas quality.

### agriPure: A complete solution

With agriPure, we offer a complete solution for anaerobic digestion and biogas upgrading: From biogas plants to biogas pretreatment to biogas upgrading systems - agriKomp is the right choice for your project. The result is a first-class, coordinated installation of different components. With a wide-range service network, experienced service engineers and high spare parts availability, your agriPure receives a perfectly coordinated service and thus the best conditions for a long and trouble-free plant lifespan.

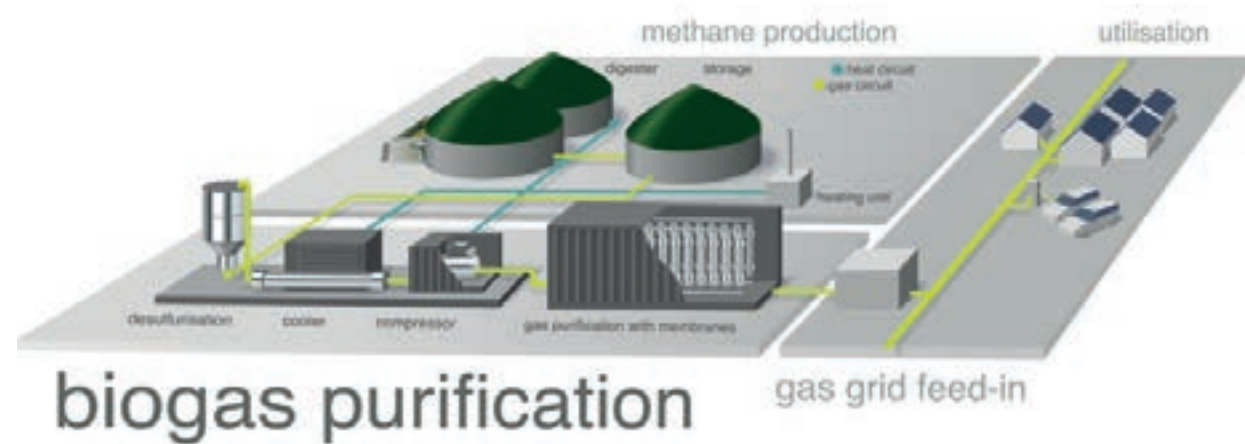
### The membrane modules for the optimal results

In order to clean the biogas, specially developed membrane modules are used. The separation membranes operate according to the principle of selective permeation. The membranes are made of several thousand fine hollow fibers, which guarantee very good selectivity. They clean the raw biogas and produce a methane concentration of up to 99% in the product gas. The innovative technology consists of three stages and enables optimum treatment efficiency with minimal biogas losses, thus achieving maximum biomethane yield.

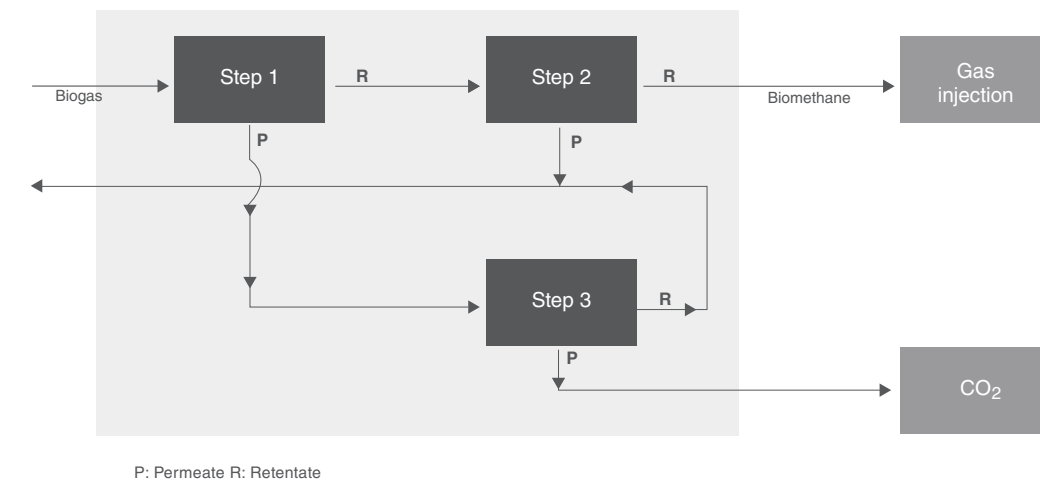
### Your benefits at a glance

- ✔ Low operating costs
- ✔ Methane loss <0.5% during the process
- ✔ Very good energy efficiency of the cleaning process (0.27kW per Nm<sup>3</sup> biogas, including desulphurization, gas cooling and pre-compression)
- ✔ No use of cleaning chemicals
- ✔ No waste water to be treated
- ✔ Dry gas after the treatment by condensation separation
- ✔ Expected membrane durability: > 7 years

Process of the biogas upgrading system and gas injection



Modular design of the plant







agriKomp GmbH  
Energiepark 2  
91732 Merkendorf  
Germany

Tel. +49 9826 65959-0  
Fax +49 9826 65959-10  
info@agrikomp.de  
www.agrikomp.com

Member of the  
professional  
association  
Biogas e.V.



aK agriPure EN  
© agriKomp 2017 01 04

agriKomp GmbH:  
Certified to  
ISO 9001:2008



**PLANTS**  
efficient. flexible. sovereign.



**COMPONENTS**  
powerful. proven. in demand.



**EXTENSIONS**  
clever. individual. high-performing.



**SERVICE**  
holistic. biological. technical.

