

Technical Details

Horizontal steel tank as plug-flow digester in one unit including also CHPS and technical equipment

Güllewerk, dimensions	Length	28.55 m
	Width	3.20 m
	Height	3.20 m
	Weight	35 t

Slurry requirement	Slurry	approx. up to 350 LSU
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Technology

Digester	Material: steel, partly coated	
	Diameter	2.90 m
	Length	18.00 m
	Approx. gross volume	121 m ³
	Approx. net volume	120 m ³

Agiator	Paddle agitator all over the digester with high agitating power	
	Drive motor	1,1 kW
	Planetary spur gear unit	1 rpm

Digester heating	Substrate counter flow heat exchanger	
	Minimal energy requirement through exact zonal heating with heating pockets at the digester	

Insulation	Steel tank - polyurethane coating	
	Güllewerk cladding with strong sandwich panels	
	Complete insulation of all heat recovery, afterheating and heating pipes	

Filling level measuring and gas pressure	Gas dome made of PE	
	Over/underpressure monitoring through Bioguard II	

Gas treatment	Desulphurisation through air supply in gas-tight fermentation residue store as well as through gas cooler and activated charcoal filter	
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Substrate inlet and outlet	By means of eccentric screw pump from pre-pit, or cooled down back to the final storage; power	5.5 kW
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Operating temperature	Ensuring max. decomposition rate	bis 55°C
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RME	Integrated into CHPS container	5000 l
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Technical container	Combined heat and power station: CHPS pilot ignition for combined power and heat generation	
	Installed el. power	up to 75 kW: Sisu 4 cylinders 120 kW: Sisu 6 cylinders

CHPS infrastructure: switching cabinet, gas control system, emergency cooler, fan, gas treatment system, cyclone sound absorber, noise absorbing curtains

Plant control: energy-optimised control system with industrial hardware components

Visualisation: 15" touch display with history records

Options

Gas-tight fermentation residue store	depending on farm requirements	620 to 2.700 m ³ net
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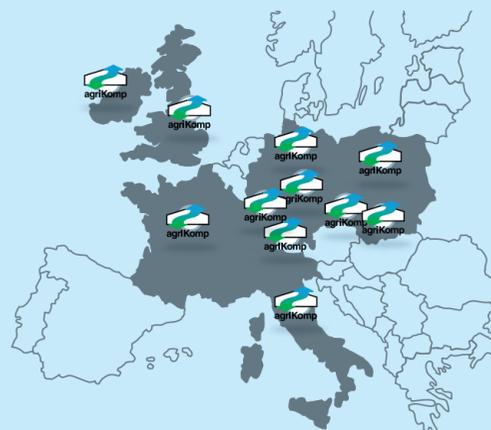
Solid matter infeed unit	Vielfrass-Top - feeder volume	7 m ³
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Subject to change without notice



Güllewerk

The Mobile Biogas Plant up to 120 kW -
fast, profitable, reliable



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Mitglied im
Fachverband
Biogas e.V.



Fast

Just get connected and generate energy

Energy from up to 350 LSU slurry

We have made power generation from biogas even easier for you. Our Güllewerk system is a compact power-pack, containing everything. Thus, you realise rapidly and efficiently the monetary value of your farm yard manure without major building effort.



Everything is so easy

The ready-to-operate Güllewerk unit will be delivered by truck and connected to the existing manure system. To enable the utilisation of solid matter and renewable materials, it can be equipped with „Vielfrass Top“, an infeed unit for solid material. Residual gas potentials can efficiently be used by means of a covered fermentation residue store.



Maximum energy efficiency

A strong and energy-saving paddle agitator ensures profound and bacteria-protecting mixing. Thanks to a sophisticated heat recovery concept, approx. 40 - 50 % of the CHPS exhaust heat can be used for the heating of buildings. As with all agriKomp biogas plants, only combined heat and power stations by renowned manufacturers will be installed for power generation. They stand for an electrical efficiency of approx. 40 %, high availability and absolute reliability!



Profitable

Low costs, excellent compensation, high profit

Take your advantages!

- Gain profit from low investment and feed costs
- Back up your income through steady plant operation
- Save heating costs by using exhaust heat for free
- Reduce methane and odour emissions
- Improve the fertilising properties of farm yard manure

Our customers are satisfied!

“The concept of this compact plant convinced me right from the beginning. And I was not disappointed. Within a very short time, the Güllewerk unit was set up in our yard and connected. It has been running economically and smoothly since then.”



The Landgraf family, energy farmers since January 2011.

Reliable

Specialist experience & competence



Tried and tested

Güllewerk units operate successfully in many enterprises, yielding substantial extra profits. Convince yourself and just ask our customers personally. We will gladly provide you with reference addresses in your vicinity!



The suitable biogas plant solution for you

Our consultants know the answer - nearly all of them are farmers and plant operators themselves. Together with you, we will find out which system is best suited for your purposes and calculate how much electricity money your manure is worth. Please contact us as follows: Phone +44 (0)121 374 2610, e-mail: info@agriKomp.co.uk



Benefit from our experience

For more than 15 years, we have been manufacturing biogas plants specifically tailored to the farming business. Several hundreds of agriKomp plants, ranging from 30 kW to 2.0 MW, are working all over Europe. In order to ensure the ongoing reliability and quality of our technology, we develop and manufacture all core components of our biogas plants ourselves.



We offer you everything a profitable biogas plant needs

- Know-how gained from hundreds of plants installed
- Internal development and manufacturing of components
- Reliable and fast service
- Support for biological processes by our laboratory
- Use of heat through local heating and micro-gas networks