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Member of the
German Biogas
Association



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bestore
. Group

agriKomp GmbH:
Certified acc.
to ISO 9001



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**PLANTS**
Efficient. Innovative. Sustainable.

**COMPONENTS**
Proven. Robust. Reliable.

**UTILISATION**
CHP. Biomethane. Digestate.

**SERVICES**
Support. Advice. Expertise.



BIOGAS TECHNOLOGY

- as needed: efficient and reliable.



Biogas with confidence – energy as it is needed.

IN-DEPTH COMPETENCE – FROM A SINGLE SOURCE

We develop and manufacture all the essential biogas plant components which guarantees reliability and quality. Why not profit from our long-standing experience!

PLANTS

Page 8–15

Whether it be a plant with 100 % slurry, with solid feeding system or a larger-scale project, we offer you a uniquely comprehensive portfolio – tried, tested and innovative!

COMPONENTS

Page 16–17

Based on our experience, we have developed components to meet demands and matched them down to the last details in our biogas plants. Our emphasis in construction and manufacture is not only on solid and robust workmanship, but also on a high level of efficiency.

UTILISATION

Page 18–23

Biogas can be utilised in many ways. We offer you a variety of utilisation options: efficient utilisation with a CHP unit or processing into biomethane. Both can be fed into the natural gas grid or used as fuel for the transport sector. We also have innovative solutions for you in the area of digestate processing and resource recovery.

SERVICE

Page 24–27

It only takes a few months to build a biogas plant, our service partnership lasts for decades. We are continuously researching and developing so that you remain successful. Expect the best from us – in all areas!

“GOOD ENERGY” IS IN ABUNDANCE!

The agricultural industry is a significant consumer of fossil fuels and chemical fertilizers. It is the objective of most countries through government policy to reduce this reliance from an environmental and sustainability perspective. Renewable energy sources are simply inexhaustible - we only have to use them!

RENEWABLE ENERGY LAW – A SUCCESS STORY! MADE IN GERMANY.

In the early 1990's, the first framework conditions were created in Germany in order to promote the development of renewable energy systems. The introduction of the “Erneuerbaren Energien Gesetz” (EEG - Renewable Energies Act) in 2000 allowed the development of the highly progressive “Renewable Energy” Industry. Today, approx. 50% of the German electricity consumption is already being produced from renewable energy sources.

PROFIT WITH OUR VALUES!

We at agriKomp have been developing ground-breaking biogas systems since the middle of the 1990's. Up to now we have implemented with our customers more than one thousand biogas plants with a total installed capacity of around 400 MW_{el}. It was, and is still today our goal to make it possible for agricultural businesses to enter the energy market, quickly and with minimum outlay.

GIVE YOUR BUSINESS THE BEST PROSPECTS – WITH “GOOD” ENERGY!

Energy generation from biogas – all in all the best result for you. You don't only profit from the regional incentive schemes. By exploiting your own farm liquid and solid manure you are improving your nutrient balance. By fulfilling statutory emission requirements, you are ensuring an improved CO₂-balance. The use of valuable heat and the marketing of electricity or biomethane provides your business with further liquidity.



Robert Bugar,
Founder and
Managing Director



Michael Engelhardt,
Founder



INFORMS:

agriKomp placed in the top 10!

A recent survey by the German Agricultural Society (dlg) revealed: agriKomp is one of the top 10 companies in the renewable energy sector in Germany!

A good network:
Always close by,
always at your side!

INTERNATIONALLY SUCCESSFUL

Around 700 employees work for the internationally oriented agriKomp network. Alongside the main headquarters in Germany, we have our own branch offices and partners in Great Britain, Ireland, France, Switzerland, Italy, Sweden, The Czech Republic and Poland. In addition, there are also projects in Canada, Kenya, Finland and China.

From the company headquarters in the Franconian town of Merkendorf, a wide network of competent and reliable sales and service partners is established.

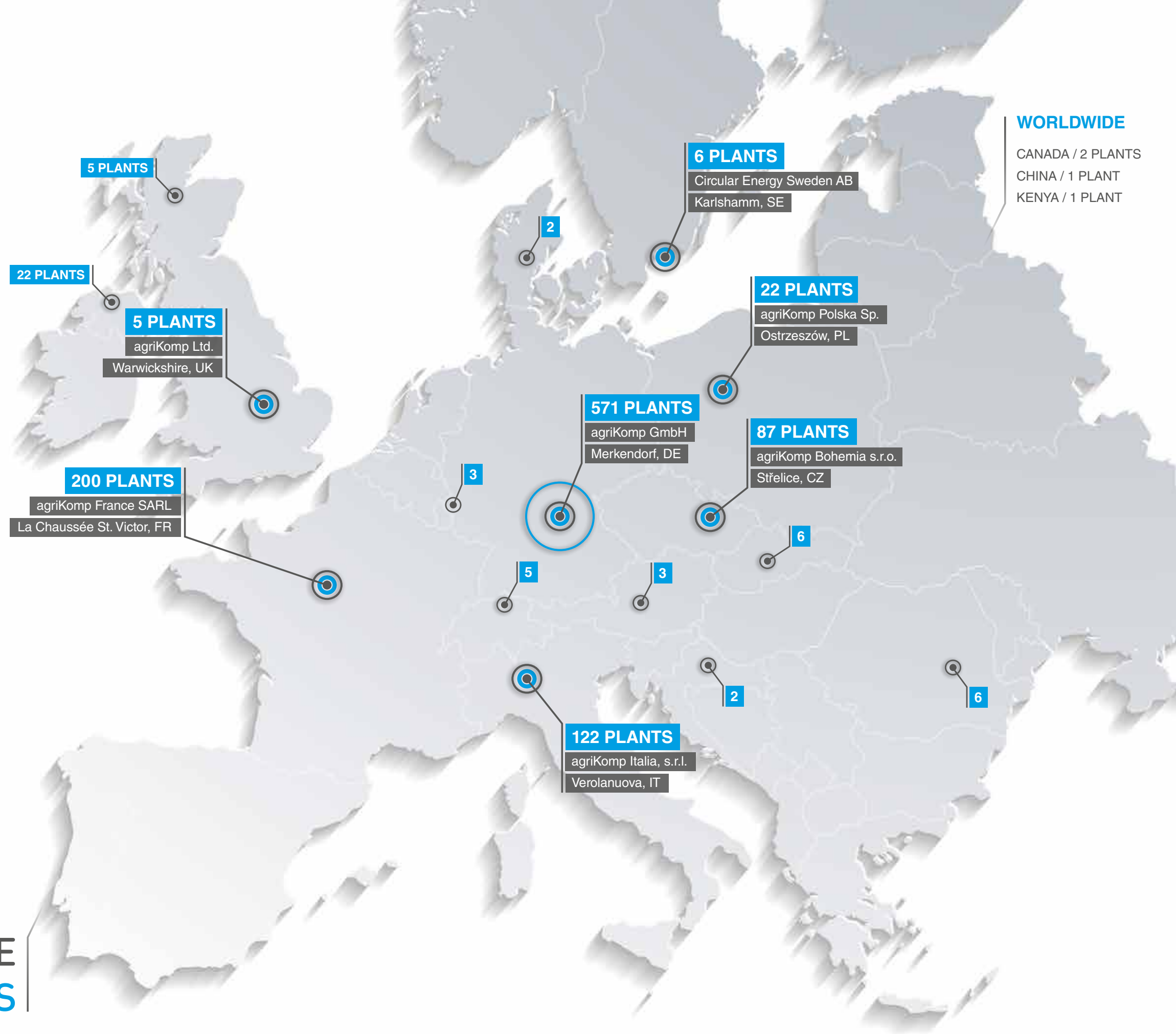
BENEFIT FROM
OUR WORLDWIDE EXPERIENCE
FOR YOUR PROJECT

Over the years, we have developed various biogas plants adapted to the characteristics and regulations of each country, each market and each operator. To date we have realised more than 1,000 biogas plants with a total capacity of almost 400 MW_{el}.

With this, we supply around 950,000 households with electricity and 200,000 households with heat. In the process, we avoid an average of 1.5 million tonnes of CO₂ per year and replace 40,000 tonnes of mineral fertiliser.

Behind all these plants are successful agricultural entrepreneurs who have secured the future of their farms by producing green energy.

WORLDWIDE MORE
THAN 1,000 PLANTS



Convincing Biogas Technology: We know our business.



HIGHLY INNOVATIVE – THROUGH DEDICATION

The holistic and visionary thinking of the company founders, Robert Bugar and Michael Engelhardt decisively characterise the development of the business to the present day. agriKomp's name stands not only for efficient technology and reliable service, but also for innovation, conviction and a great deal of entrepreneurial courage: ground-breaking systems, such as the first mobile biogas plant, the Güllewerk®, or the Padelgigant® agitator are just a few examples of brilliant engineering from the agriKomp R&D department.

CONTINUITY – THE BEST QUALITY

All the essential components of the biogas plant are developed and manufactured by agriKomp. This guarantees absolute reliability and continuous excellent quality. Key components, such as the flexible gas store (Biolene®), the paddle agitator (Padelgigant®) and the robust feeding technology (Vielfraß®) have set international standards with respect to stability, reliability and energy efficiency.

RELIABLE – SOURCE ENGINEERING

It only takes a few months to build a biogas plant, our service partnership lasts for decades. This is what a biogas plant manufacturer should be able to offer in all events. Essential parameters which decide the long-term profitability of your plant are stable technology, reliable service and, above all, continuous further development.

We are always researching and developing, so that you remain ahead in the future. Therefore, expect the best from us – in every sector!

„If you wish to stay ahead you must be innovative, have reliable and efficient products in your portfolio and also provide a secure service. This requires dedicated people and solid engineering“, says Robert Bugar.

FULL COMPETENCE FROM ONE SOURCE

- ✓ **... Up front ...**
Research, development and manufacturing of our own components and plant designs
 - ✓ **... At the beginning ...**
From planning to construction
 - ✓ **... And also after construction ...**
Comprehensive service (technical and biological)
- Utilisation concepts
- Combined heat and power
 - Biomethane
 - Digestate treatment
- Repowering / Extension
- Heat utilisation concepts
- District heating and microgas networks
- Added-value services
- Electricity marketing
 - Power2Heat
- ... We are always at your side!**

COMPANY HISTORY – OUR MILESTONES IN OVER 20 YEARS

- | | | | |
|-------------|--|-------------|--|
| 2000 | • Founding of the agriKomp Company Weidenbach (Bavaria) | 2014 | • agriSelect® is introduced |
| 2001 | • 1 st biogas plant in Germany | | • Development & manufacturing of the BGA 086 |
| 2002 | • Padelgigant® and Biolene® are introduced | | • Certified acc. to DIN ISO 9001:2008 |
| 2003 | • Vielfraß® is introduced | 2015 | • Introduction of the gas upgrading system agriPure® |
| 2004 | • Foundation of agriKomp West | 2016 | • agriFer® is introduced |
| 2005 | • 1 st biogas plant in Kenya | | • Development and manufacturing of the BGA 136 |
| 2006 | • Own biogas laboratory is set up | | • Founding member of ServiceUnion GmbH (Service network) |
| | • 100 th biogas plant built | 2017 | • Certified acc. to DIN ISO 9001:2015 |
| | • Foundations of agriKomp Bohemia (Czech Republic); agriKomp France (France); agriKomp Süd (Germany) | 2018 | • Foundation of ServiceUnion SAS (France) |
| 2007 | • Quetschprofi® is introduced | | • Investment / share in BIORESTEC |
| 2008 | • Innovation: Güllewerk® is introduced | | • agriFer® Plus (digestate upgrading system) is introduced |
| 2009 | • agriKomp receives Innovation Award from Middle Franconia | | • Development and manufacturing of the BGA 095 |
| 2010 | • Foundations of agriKomp Slovakia (Slovakia); agriKomp Polska (Poland); agriKomp UK (Great Britain) | 2019 | • 300 th small-scale (farm-based) biogas plant in operation |
| 2011 | • Foundation of agriKomp CSS (Canada) | | • Partnership with Biemme Impianti (Italy) |
| | • Formprotect® is introduced | | • 100 th biogas plant in France in operation |
| 2012 | • Commissioning of the first compact slurry plant | 2020 | • 10 th agriPure® plant in France in operation |
| 2013 | • Shareholding in SCHNELL Motoren AG | 2021 | • 1 st agriFer® Plus in operation |
| | • 1 st biogas plant in Canada | | • BGA 136 ETA, DC 13 ETA performance- and retrofit-kit are introduced |
| | | 2022 | • Foundation of agriKomp Italia |
| | | | • BGA 095 ETA, DC 09 ETA performance- and retrofit-kit are introduced |
| | | 2023 | • BGA 168 ETA is introduced |
| | | 2024 | • 10th anniversary of the agriSelect® system |

Sophisticated biogas plants

Efficient. Innovative.
Sustainable.

MANY VARIANTS TO MEET YOUR REQUIREMENTS!

The result of our more than 20 years of experience and development in biogas plant and component engineering: a large and versatile portfolio of components and plants. Whether slurry, manure, agricultural residues, grass or silage - powerful technology and a wide range of specially developed components and plants give you a free hand.

BENEFIT FROM UNTAPPED POTENTIAL

Biogas production from manure and slurry, organic residues and renewable raw materials has become increasingly popular worldwide in recent years. Especially the use of manure, slurry and organic residues makes the operation of a biogas plant profitable for you.

If, for example, livestock housing construction measures become necessary, it is advisable to include biogas in the concept. Often, a significantly more economical and sustainable solution can be found with little additional effort.

CUSTOMISED FOR YOUR BUSINESS

Our consultants are practitioners and know their business. Together with you, they will determine the optimal system configuration for your farm. The various operational conditions and parameters such as crop area, input materials, operational planning and the time you want to invest in the operation of the plant are taken into account in the concept for your biogas plant.

HIGHEST STANDARD

A high degree of standardisation, ISO 9001 certification and CE conformity are quality and safety benchmarks for us. It is not only a matter of fulfilling important safety guidelines and legal requirements. Identical systems and components enable the highest quality in material use and processing. This ensures a long-term reliable supply of the right spare parts and competent service.

OUR INDI PLANT – INDIVIDUAL, LIKE YOU!

Our comprehensive component portfolio enables a wide range of different system configurations. The exclusive use of our proven components ensures model consistency. This gives you a high degree of security and the necessary flexibility. This is how individual biogas plants are created, tailored to the respective operational requirements.

Plant capacities from 55 kW_{el} to 2.5 MW_{el} and more are possible - whether with a CHP or an upgrading to biomethane.

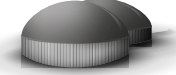
We develop and manufacture an individual and highly economical solution for you that meets your vision and needs; the result is what we call an „Indi“ plant“.

YOUR BENEFITS AT A GLANCE!

- ✓ Individual plant design
- ✓ Standardised technology
- ✓ Highest safety standards
- ✓ Powerful and proven agriKomp components
- ✓ Perfectly coordinated interfaces
- ✓ Broad CHP portfolio (agriKomp BGA series) and biogas upgrading (agriPure®) for efficient biogas utilisation
- ✓ Competent service and best spare parts supply
- ✓ Continuous updates

WORLDWIDE

> 700 PLANTS



INDI PLANTS

> 200 PLANTS



AGRISELECT



agriSelect® – our multi-talented system.



AGRISELECT® – SELECTED QUALITY

“Select” in the name of our plant system stands for carefully selected components paired with a wide range of options. Branded components intelligently arranged and flexibly combinable. If you wish, also with your own contribution.

The compact biogas plant can be built in just a few weeks. Pre-assembled modules, turnkey technology and CHP container, unique Formprotect® tank construction system and the deployment of an experienced on-site supervisor ensure that the installation of the plant progresses quickly.

SELECT - SOLID PLATFORM AND A WIDE RANGE OF CHOICES

Standardised system configurations equipped with proven agriKomp brand technology are the foundation. You can configure your agriSelect® individually according to your needs with our proven agriKomp brand components and a wide range of additional packages and options:

Digester construction in Formprotect® design or conventional, Biolene® single-layer membrane or double membrane roof, CHP containers with various agriKomp CHP units of the BGA series, technical and intermediate space containers as well as submersible or paddle agitator. The visually appealing containers are of concrete construction and prefabricated and are therefore quickly ready for operation.

FREE CHOICE OF FEEDSTOCK

The agriSelect® can be operated with 100 % liquid manure. By upgrading the agriSelect with Vielfrass® solid feeder and Paddlegigant® paddle agitator, it can also be operated with solids (e.g. energy crops, agricultural residues, etc.) and even with 100 % manure.

HEAT UTILISATION

The efficient use of energy and a sophisticated heat utilisation system create enough valuable heat to heat buildings free of charge and regeneratively.

CAPACITY

The agriSelect® system is available from 55 to 265 kW_{el}.

Variant 55 – 100 kW_{el}

The classic farm biogas plant, of which almost 200 plants are currently in operation. Since 2023 we have been equipping the “small” agriSelect® with our BGA 095 ETA with the latest SCANIA 5-cylinder in-line engine DC09.

Variant 100 – 150 kW_{el}

The medium agriSelect® plant with the large variant of our BGA 095 ETA. With our BGA095 ETA, a sophisticated biogas plant is joined by a very efficient CHP unit: with an electrical efficiency of up to 40.7 %, our agriSelect® is unrivalled in this unparalleled in this power range.

Variant 150 – 265 kW_{el}

Our top model, the BGA 136 ETA, reliably utilises the the biogas produced reliably and and efficiently (electrical efficiency of up to 43 %) in our largest agriSelect® variant. Well over 50 plants are already in operation. For gas purification, an agriClean 150 is used for gas purification.

YOUR BENEFITS AT A GLANCE!

- ✓ 3 basic models cover a plant capacity of 55 - 265 kW_{el}
- ✓ Equipped with proven agriKomp components
- ✓ Wide range of input materials possible
- ✓ Individually configurable
- ✓ Modular design
- ✓ Many additional packages and options
- ✓ High degree of standardisation
- ✓ Short construction time
- ✓ Pre-fabricated containers
- ✓ Ready-assembled modules
- ✓ Appealing design



akCockpit – Webapplication

Our all-in-one solution for monitoring and controlling biogas plants, CHPs or biogas upgrading plants.

The application summarises all important information about your plant at a glance. This allows you to carry out extensive analyses and monitoring and save a lot of time.

agriPure® – The system for biogas upgrading.

FROM BIOGAS TO BIOMETHANE

The biogas upgrading process converts biogas produced by anaerobic digestion into biomethane using special membranes. There are several pre-treatment steps to clean and condition the biogas. The biogas is then compressed before entering the membranes which are used to separate the methane (CH₄) and carbon dioxide (CO₂) gases at a molecular level. After this upgrading process, the product biomethane can be sent to the gas grid or further compressed or liquefied for use as transport fuel.

In general, biomethane can be used after biogas upgrading wherever natural gas is also used. Both variants are chemically equivalent and differ only in their either fossil or biogenic origin. This opens up a wide range of possible applications.

Flexibility

With the agriPure® upgrading process, we can realise a broad spectrum from small to large biogas upgrading plants. Due to the high flexibility of the process, the membrane technology can be easily adapted to changing volume flows and gas compositions. The standard output range of our agriPure® extends from 135 Nm₃/h - 2,000 Nm₃/h raw gas.

AGRIPURE® – COMPLETE CUTTING EDGE SOLUTION

With agriPure®, we offer a complete solution for anaerobic digestion and biogas upgrading: from biogas plants to biogas pre-treatment to biogas- / CO₂-processing and upgrading to BioLNG or BioCNG. agriKomp is the right choice for your project!

The result is a first-class, coordinated installation of different components. With a wide-ranging service network, experienced service technicians and good spare parts availability, your agriPure® plant will receive a well-coordinated and reliable service support, providing the best opportunity for a long and trouble-free plant lifespan.

HEAT RECOVERY SYSTEM

The extraction of excessive heat from the heat system of the upgrading plant ensures high efficiency of the whole plant. The biogas compressor uses oil to lubricate the compressor. This oil heats up during operation and needs to be cooled. This can be done via emergency coolers or, as in our agriPure®, via integration into a sophisticated heat recovery system. We also have integrated more components (p. ex. the gas cooling) into the heat recovery system to gain even higher efficiency. The heat recovery system is located in the heating system container.

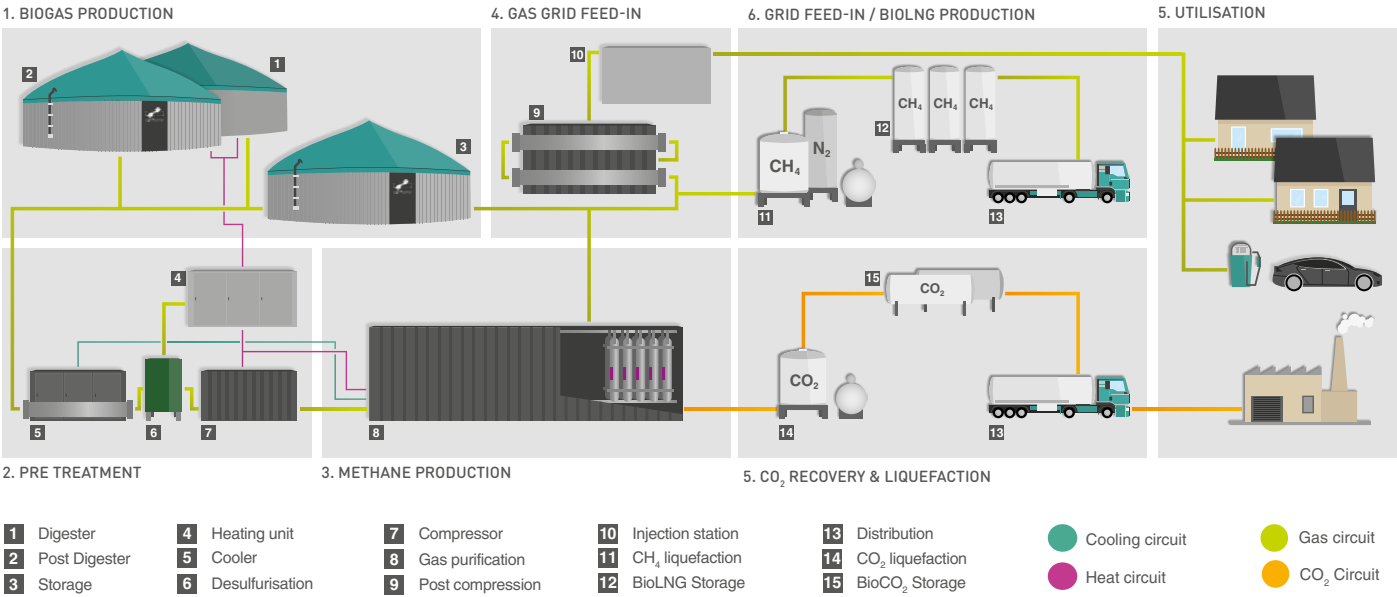
UNSERE AGRIPURE®-MODELLE

- agriPure® CUBE**
The system creates new possibilities in terms of flexibility, modularity and profitability. The redesigned, modular structure allows easy expansion, even if components need to be replaced. Available from 135 to 2,000 Nm³ / h raw gas.
- agriPure® Smart S + M**
Focussed on the essentials, it impresses with its compact design, smart price and impressive performance. Available in the Smart S (130 - 295 Nm³/h raw gas) and Smart M (430 - 620 Nm³/h raw gas) versions.

MEMBRANE MODULES FOR OPTIMAL RESULTS

In order to purify the biogas, specially developed membrane modules are used. We equip our agriPure® upgrading system with SEPURAN® Green membranes from EVONIK. 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 separate the gases in the raw biogas and produce a methane concentration of up to 99 % in the product gas. The innovative patented technology consists of three stages and enables optimum treatment efficiency with minimal biogas losses (methane slip), thus achieving maximum biomethane yield.

- YOUR BENEFITS
AT A GLANCE
- ✓ Fully automated system, easy to operate
 - ✓ ≥ 99.4% methane recovery
 - ✓ Selected high quality components
 - ✓ High energy efficiency / low operating costs
 - ✓ Sophisticated heat recovery
 - ✓ Modular system: suitable for expansion
 - ✓ Fast system re-start to grid-quality gas
 - ✓ Industry leading membrane performance
 - ✓ No process heat required
 - ✓ Comprehensive service support
 - ✓ Availability of critical spare parts in stock
 - ✓ Online control functionality
 - ✓ Design enables integration of a CHP unit to generate electricity for own consumption



agriFer® Plus

The next generation of digestate treatment.

OUR INNOVATIVE PROCESS FOR DIGESTATE TREATMENT

The storage and use of slurry and digestate is leading to an increasing financial burden for biogas plant operators. Most of the processes currently available on the market work on volume reduction and concentration of nutrients. So far, however, no process has been able to remove excess nitrogen from agriculture.

The high nitrate levels in the soil and groundwater are due, among other things, to over fertilisation with ammonium-containing slurry, digestate and solid manure. A large part of the ammonium used becomes nitrate in the soil.

EVAPORATION, RECOVERY AND DISCHARGE

The innovative agriKomp complete treatment process offers an economical solution to the nitrate problem with simultaneous volume reduction. In this process, nitrogen-containing digestate is treated by an evaporation process in combination with reverse osmosis.

The nitrogen is converted into marketable ammonia solution that is used in the chemical industry (e.g. in flue gas cleaning).

In the agriFer® Plus process, the input material is separated into approx. 3 % ammonia water (which contains up to 50 % of the total nitrogen from the input), approx. 49 % water, 21 % solid phase from separation and approx. 27 % NPK (nitrogen, phosphate and potassium) concentrate, which can be used as fertiliser.

SUSTAINABLE RESOURCE MANAGEMENT

Compared to existing processes, valuable nutrients are obtained in the form of marketable products. The concept is also characterised by high environmental compatibility, as the addition of chemical additives have been reduced.

Our treatment process significantly improves profitability, protects groundwater and offers sustainable resource management.

THE BIG PICTURE CONSISTS OF FOUR SUB-PROCESSES

1. Separation of digestates

The digestate is first mechanically separated into a liquid phase and a solid phase. While the liquid phase, filtered through a sieve, is fed to the evaporators, the separated solid phase can be temporarily stored on a suitable storage area.

2. Fractional evaporation

The agriFer® Plus design is based on a newly developed fractional evaporation process. Fractional evaporation uses the different vapour pressures of ammonia and water to separate them in several stages by evaporation.

3. Rectification

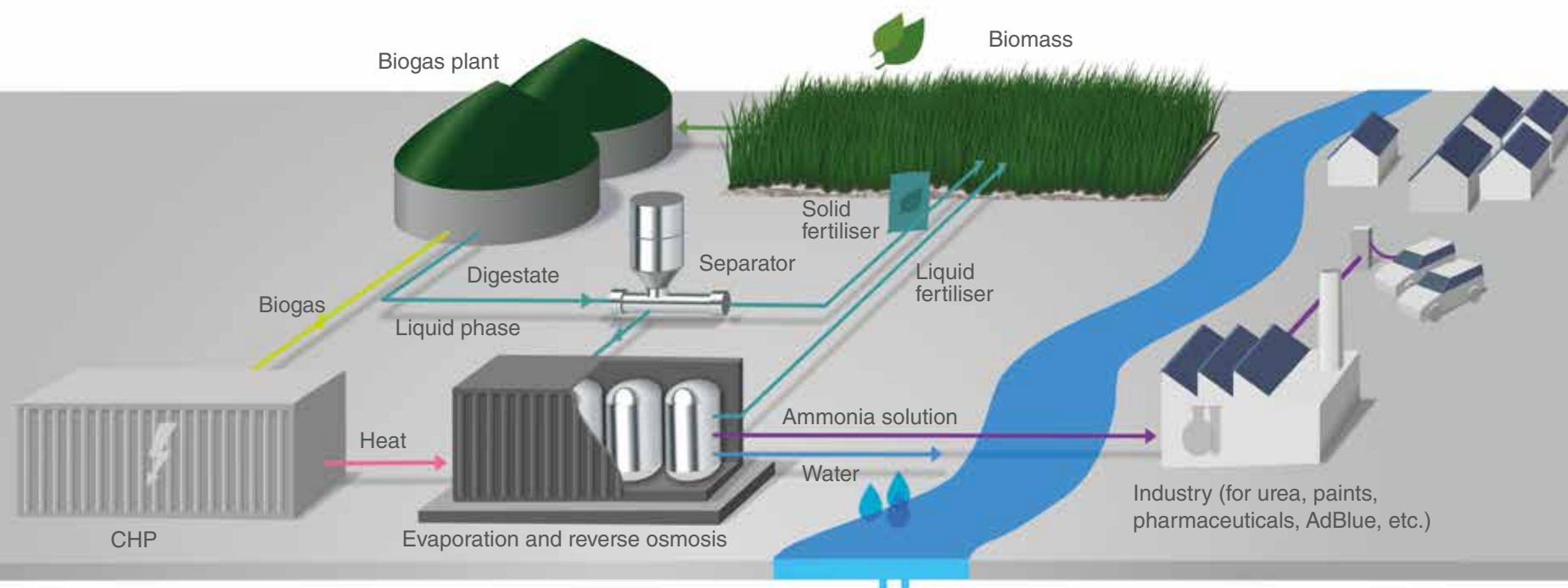
The task of rectification within the agriFer® Plus plant is to increase the concentration of the ammonia water as required. This reduces storage and transport costs and generates income from the sale of ammonia water.

4. Reverse osmosis

The condensate produced in evaporators is pressed against the semi-permeable reverse osmosis membranes. The resulting permeate (water) can be used for operational purposes or discharged into receiving waters without further treatment. The retentate (concentrate) is either returned to fractional evaporation or can be applied as a high-quality mineral NPK fertiliser as required.

YOUR BENEFITS AT A GLANCE

- ✓ The digestate volume is significantly reduced
- ✓ Upgrading of the digestate to concentrated, high-quality liquid fertiliser and ammonia water (basic chemical for industry)
- ✓ Minimisation of emissions (ammonia)
- ✓ Increasing the economic profitability of your plant
- ✓ agriFer® Plus is the only process to date that removes nitrogen from agriculture
- ✓ Lower treatment costs
- ✓ Stable market demand for process products
- ✓ The plant operator changes from a producer of problematic substances to a producer of important basic chemicals



Built to last. Since 2002.
Components. Solid & Reliable.
 Rely on the Originals!



SPECIALISTS ARE NEEDED HERE!

In practice, it has been shown that the processing of manure, grass, agricultural residues and silage sets special engineering demands. We have therefore developed components on the basis of our experience to meet these demands and matched them together. Solid, robust, efficient and reliable - they guarantee maximum availability.

GOOD, TRIED AND TESTED – CONTINUOUSLY INNOVATIVE!

We develop and manufacture all the essential components ourselves. They are all of the same high quality and conform to the relevant international CE and safety standards. Due to our continuous development and innovation, you and your plant are always at the cutting edge!

PADDELGIGANT® – THE STRONG AGITATOR

The energy-efficient agitator technology was designed especially for structured substrates with high dry matter contents. This operational capability opens up a wider range of feedstock for biogas plant operators. The four angled, low-speed paddles cause optimal and biologically friendly mixing in the shortest possible time. This is important for an optimum gas yield and for the avoidance of sink-and-float layering.

VIELFRAß® – THE RELIABLE SOLID MATERIAL FEEDER

The feeding of digesters plays a key role in the economic and efficient operation of a biogas plant. A reliable and effective solid feeding system will ensure optimal introduction of biomass to the digester with increased gas yield, lower energy consumption and reduced wear on the agitators and pumps.

To maximise plant performance, it is becoming increasingly important to choose a feeding technique that can also process more difficult to handle materials. With our Vielfraß® portfolio, you have a wide range of feedstock options.

The variety of the Vielfraß® family is unique on the market: basic units from 5 to 13 m³, discharge container of 20, 30 and 40 m³ allow a multitude of possible combinations up to a discharge capacity of 90 m³. The portfolio is rounded off by the Vielfraß® LEF with a capacity of up to 139 m³. The Vielfraß® LEF works with walking floor technology and can be configured with liquid feeding (PreMix unit) or high conveying technology.

QUETSCHPROFI® – THE MODERN SEPARATION TECHNOLOGY

When separating digestate with a high content of solid manure and grass, conventional separation engineering reaches its limits. We have therefore developed an economical and robust separator for digestate and slurry. Fine sieve-drums and a continuously controlled pneumatic cylinder which can react flexibly to fluctuating dry matter content, provides high separation levels and a reliable, continuous separation result.

BIOLENE® – THE FLEXIBLE GAS STORE

Our single-shell Biolene® biogas storage membrane, proven thousands of times in practice, is an economical solution for your biogas plant. Biolene® is a gas storage tank and tank cover in one and thus offers a highly efficient solution for small agricultural and industrial biogas plants.

DOUBLE MEMBRANE GAS STORAGE

Flexible and efficient biogas plant operation is closely linked to the storage of biogas. Our high-quality and durable double membrane roof is the ideal solution for the flexible storage of biogas. The outer cover is a weather protection cover that protects the inner gas membrane from external influences.

Our weather protection membranes made of PVC-coated polyester fabric are specially designed to withstand high temperatures and thus guarantee the longest possible service life. The gas storage membrane underneath also has high temperature stability and low methane permeability.

FORMPROTECT® – THE CLEVER TANK CONSTRUCTION SYSTEM

Exclusively we can offer a unique digester construction system from easy-to-handle PVC-modules, in which the formwork remains in place and becomes part of the vessel. An additional coating, insulation and impregnation is not necessary as concrete and weather protection are already integrated. The system is absolutely gas- and water-proof as well as being resistant to hydrogen sulfide and acid corrosion. The exterior wall does not need to be insulated, painted or receive any cladding.

Formprotect® is also available as a remedial repair system, e.g. for the renovation of existing tanks.



Formprotect®
 Structure: Interior and exterior panels

BUILT TO LAST
ORIGINALS
 – SINCE 2002 –

CHP. Made by agriKomp.
Efficient. Reliable.
Flexible.

**POWERFUL PERFORMANCE
– HIGHEST RELIABILITY**

Combined heat and power units (CHP), with their versatile applications, currently represent an economical and efficient climate protection technology. All CHP units work according to the principle of combined heat and power (CHP), a decentralised generation of electricity and heat available directly on site where it is consumed.

agriKomp offers you customised energy concepts for CHP applications. We develop optimised CHP units with modern engine technology from renowned manufacturers, such as SCANIA, in the small and medium power range.

Our CHP units are characterised by their robustness and reliability. This results in low maintenance costs that are unparalleled in the industry.

You can obtain all our CHP units as completely pre-installed container solutions (concrete or steel containers) or as an individual CHP solution, e.g. for integration into an existing housing.

**AVAILABLE
PRODUCTS**

- ✓ BGA 095 ETA / 75 kW_{el} – 150 kW_{el}
- ✓ BGA 136 ETA / 150 kW_{el} – 265 kW_{el}
- ✓ BGA 168 ETA / 260 kW_{el} – 350 kW_{el}
- ✓ BGA 252 / Up to 530 kW_{el}
- ✓ agriClean gas pre-treatment

BGA 095 ETA
75 kW_{el} – 150 kW_{el}



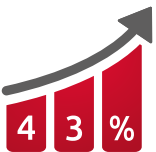
Our CHP series BGA 095 ETA is optimized for best possible performance and availability. The BGA 095 ETA is a frequently chosen CHP unit in the smaller power range and a good addition for the expansion of a biogas plant.

The BGA 095 ETA is equipped with the latest SCANIA 5-cylinder in-line engine DC09 ETA. The CHP impresses with low maintenance requirements and very high availability of spare parts. All components, including the device for remote maintenance and monitoring, are mounted on a frame with minimized vibration.

YOUR BENEFITS AT A GLANCE

- ✓ Latest, technically mature SCANIA 5-cylinder in-line engine (DC09 ETA)
- ✓ 9 liter unit in solid construction
- ✓ Low maintenance requirements with very good availability of spare parts
- ✓ All components mounted on one frame. Including the device for remote maintenance and monitoring.
- ✓ Available as:
Conversion kit DC09 ETA, Performance kit or BGA095 ETA

BGA 136 ETA
150 kW_{el} – 265 kW_{el}



With the CHP series 136, first manufactured in 2016, we serve an essential and popular power range.

Our proven BGA 136 received an efficiency update. The new “ETA” version with up to 43 % efficiency is available since 2022.

CHP units of the BGA 136 type are suitable for medium-sized farms and are ideal for flexible operation in double or even multiple units.

The BGA 136 series is particularly impressive due to its robust design, excellent starting behavior and reliable, field-proven technology, which ensures excellent availability.

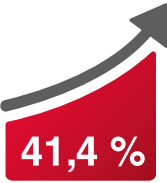
YOUR BENEFITS AT A GLANCE

- ✓ The BGA 136 product range is based on the latest Scania DC13 engine generation
- ✓ Electrical efficiency up to 43 %
- ✓ Optimized hydraulic system, especially for flexible operation
- ✓ Available as:
Conversion kit DC13 ETA, Performance kit, Biogas CHP (BGA136 ETA) or Biomethane CHP (NGA136)



CHP. Made by agriKomp.
Efficient. Reliable.
Flexible.

BGA 168 ETA
260 KW_{el} – 350 KW_{el}



The powerful unit from our portfolio convinces with its stable and robust design. Due to its space-saving SCANIA 8-cylinder V-engine and the very good availability, it is a perfect CHP unit in the medium performance range.

With the help of an optimised hydraulic system, which was specially designed for flex operation, a high and stable flow temperature is achieved. This prevents condensation of the exhaust gas in the exhaust gas heat exchanger. Instead of batteries, the BGA 168 ETA uses a standardised mains starter instead of batteries. This guarantees safe starting behaviour at constant speed, which is indispensable especially in flex operation.

YOUR BENEFITS AT A GLANCE

- ✓ 8-cylinder SCANIA engine (OC16)
- ✓ Electrical efficiency up to 41.4 %
- ✓ Robust and reliable construction
- ✓ Low maintenance, very good availability of spare parts
- ✓ Optimised hydraulic system, especially for flex operation
- ✓ Mains starter for increasing the starting speed

BGA 252
– UP TO 530 KW_{el}

The powerful unit from our portfolio impresses with its stable and robust design. Due to its space-saving 12-cylinder V-engine and high availability, it is a frequently chosen CHP unit in the medium output range.

With the use of an optimised hydraulic system, which was specially designed for flexible operation, a high and stable flow temperature is achieved. This prevents condensation of the exhaust gas in the exhaust gas heat exchanger. Instead of batteries, a standardised mains starter is used in the BGA252. This guarantees safe starting behaviour at constant speed, which is indispensable especially in flexible operation.

YOUR BENEFITS AT A GLANCE!

- ✓ 12-cylinder V-engine
- ✓ Electrical efficiency up to 42 %
- ✓ Robust and reliable construction
- ✓ Low maintenance, very good spare parts availability
- ✓ Optimised hydraulic system, especially for flex operation
- ✓ Optimized single turbocharger and improved cylinder heads



AGRICLEAN – HIGHEST EFFICIENCY
AND MAXIMUM CLEANING

The agriClean product range has the function of treating the gas produced in a biogas plant for utilisation in a CHP unit. The gas treatment can be used for the combustion gases biogas, sewage gas and landfill gas. It is designed for outdoor operation, for continuous operation and, with constant flow, also frost-proof.

agriClean 150, 300, 600:
Complete system in modular design for outdoor installation, consists of:

Cooling module

Cooling of the biogas by separation of condensate

- ✓ Cooling by cold water generator incl. cooler, storage tank and safety group.
- ✓ With droplet separator (demister)

Pressure boosting and control module

Pressure boosting to the required operating pressure for CHP, control and regulating system

- ✓ Side channel compressor energy-saving controlled by frequency converter (explosion-proof)
- ✓ Temperature and pressure displays
- ✓ Pressure switch for over- and underpressure safety shutdown
- ✓ Switch cabinet for control of the system

Desulphurisation module

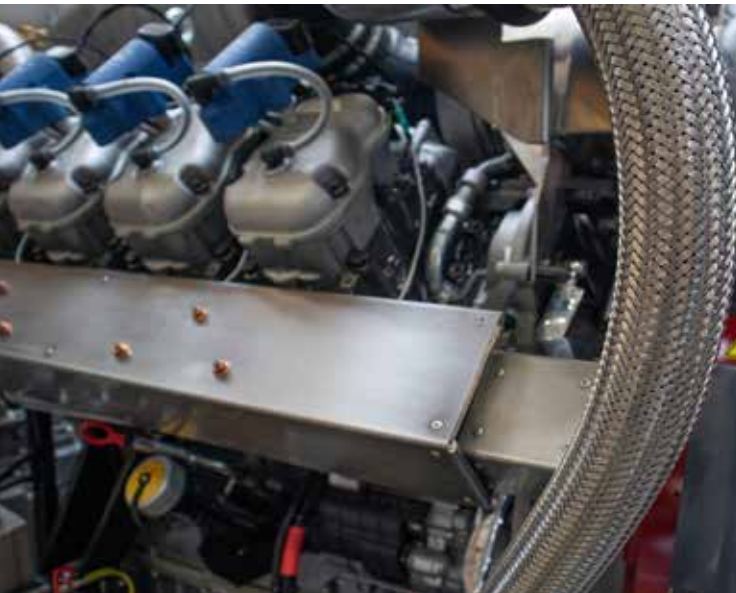
Removal of sulphur compounds and dust particles

- ✓ Activated carbon container made of stainless steel
- ✓ Including heating register for gas preheating
- ✓ Insulated with diffusion-proof, UV-resistant thermal insulation

AGRICLEAN

Biogas throughput with cooling from/to in Nm³/h	35 / 20 °C:		45 / 20 °C:	
AC 120	120		80	
AC 150	150		104	
AC 300	330		199	
AC 600	670		458	

*Manufacturer information



From Biogas to Biomethane.

Membrane processing.

Efficient und profitable.

RENEWABLE ENERGY SOURCE WITH POSITIVE PROPERTIES

Biogas is produced naturally through the decomposition of organic waste or renewable raw materials. The biogas produced is a gas mixture of 50–75 % methane, 25–45 % carbon dioxide, small amounts of water and trace gases such as hydrogen sulphide, oxygen, nitrogen, ammonia and hydrogen.

Biogas can be used to generate electricity and heat in suitable CHP units. This type of utilisation is, however, strongly location-dependent and does not tap all the advantages of this primary energy source. By upgrading biogas to biomethane, many other positive properties and uses can be developed.

WAS IST BIOMETHAN?

Commercially available natural gas contains a high percentage of methane with smaller amounts of nitrogen and carbon dioxide. Its calorific or energy value can vary depending on where it is sourced across the world. The upgrading of biogas produces biomethane, which can be fed into the natural gas grid as a natural gas substitute and used in the same way.

FROM BIOGAS TO BIOMETHANE

The biogas produced, also called raw gas, is first subjected to pre-treatment which removes impurities from the biogas input before it enters the compressor and separation membranes. It includes gas drying, activated carbon filter and pre-compression.

In the subsequent upgrading process, the CO₂ and other gases contained in the raw biogas are separated using membrane technology. The upgraded gas contains up to 99 % methane and is now called biomethane or bio natural gas. The other separated gases such as CO₂ and H₂ can be utilised for further applications.

1. BIOGAS-PRODUCTION

As a biogas plant manufacturer with more than 20 years of experience and almost 1,000 operating plants worldwide, we offer a wide range of plant configurations made of standardized and high-quality components, tailored to the needs of our customers. Seamless spare parts supply, an extensive service network and technical updates ensure trouble-free operation over the entire plant lifetime.

2. PRE-TREATMENT

The biogas comes from the biogas plant as a mixture of CO₂, methane and a small amount of other gases and is desulfurized in the pre-treatment stage with activated carbon, filtered and dried to protect downstream components from wear or damage. The pre-treated gas is then compressed to 16 bar and fed into the membrane stage. The pre-treatment unit is also developed and manufactured by agriKomp.

3. UPGRADING / PURIFICATION

The pre-treated and compressed biogas enters a membrane separation process, yielding a methane rich product gas and a CO₂ rich off-gas stream. The innovative and patented 3-stage membrane configuration can produce a biomethane purity up to 99 %. The membrane separation stage and control system is housed in a single bespoke container.

4. FEED-IN/INJECTION

The biomethane injection unit is connected between the biogas upgrading plant and the gas distribution grid. Its functions are the more than calibrated measurement of the biomethane, gas quality measurement, conditioning, odorization and pressure increase to the grid pressure.

5. CO₂ RECOVERY AND LIQUEFACTION TO BioCO₂

The CO₂ removed from the biogas can be captured and recovered by liquefaction. This CO₂ can be used in many industries, for example air enrichment for greenhouses and in food and beverage production.

6. BioCNG & BioLNG

Biomethane can be used very well as a bio-fuel to decarbonise the transport sector. Compressed as BioCNG or liquefied as BioLNG. To complement the biomethane supply chain, we have proven technologies for liquefaction. The application of the BioLNG produced enables the long-distance storage and transport of a fully renewable fuel such as methane.



agriPure® Container



Purification inside the Containers



Repowering & Extensions Investments providing good return!



BEFORE



AFTER



BEFORE



AFTER

FIT FOR THE FUTURE

Technical progress is enormous, especially in the field of renewable energies. It is often a wise investment to retrofit or expand an existing plant during its lifetime and to replace individual components - both economically and ecologically. With every measure and the associated use of modern technology, you increase the efficiency, ease of operation and safety of your biogas plant and meet legal requirements. The aim is to consistently increase efficiency and reliability for economical operation far beyond the period of the feed-in tariff.

Modernisation is an investment in the present and above all in the future. Regardless of whether you are looking for a feeding system, a double membrane roof, agitators, substrate treatment or separation technology - with us you can be sure that everything will fit in the end. Even with a new and modern tank, we can serve you in the context of the modernisation or renovation of the biogas plant and offer it a long and enduring future.

At the beginning of an assessment, a technical and biological inventory of your plant is carried out by our consultants. From the analysis of your data, you create a suitable catalogue of measures for expansion or repowering. You will receive comprehensive advice, recommendations for action and their implementation from a single source.

Ensure the best possible output - with our complete solutions, through retrofitting and upgrading of biogas plants and CHP units. An investment that pays for itself quickly!

CONVERSION & PERFORMANCE KIT FOR CHP

„ETA“ stands for a SCANIA engine that has been further developed by agriKomp and makes no compromises when it comes to efficiency. In cooperation with Service-Union, several packages have been developed on SCANIA OC09, DC13 and OC16 ETA. In addition to complete conversion sets and exchange engines for various units, we also offer you individual performance sets in order to be able to realise the higher efficiency even with engines that have already been converted to a OC09, DC13 and OC16 gas engine.



- ✓ Conversion Kit SISU: 70 – 100 kW_{el}
- ✓ Conversion Kit OC09 ETA: 70 – 150 kW_{el}
- ✓ Conversion Kit DC13 ETA: 180 – 265 kW_{el}
- ✓ Conversion Kit OC16 ETA: 260 – 350 kW_{el}
- ✓ Performance kits available to increase efficiency of old DC09 and DC13 motors
- ✓ At current ignition oil prices, significant savings are possible

EFFICIENCY INCREASE THROUGH AGITATOR MODIFICATION

The retrofitting of the agitator technology promises particularly high increases in efficiency. Especially if you change from a submersible motor agitator to a paddle agitator.

Many plants have been designed for the use of maize, whole crop silage and slurry. Submersible agitators were often chosen. If one wants to use a wider range of feedstock, the technology often reaches its limits. With a paddle agitator, our Paddelgigant®, even difficult materials such as grass and manure can be optimally mixed for the process.

The four sloping paddles, which operate slowly and at low speed, ensure optimum and biologically careful mixing in the shortest possible time. This means that the renewable raw materials and slurry or manure are mixed in the digester in an ideal and energy-saving manner. Sinking or floating layers are largely avoided and the gases are stirred out.

THERE ARE GOOD REASONS FOR AN AGITATOR EXCHANGE:

- ✓ High efficiency - reduced power consumption
- ✓ Good and slow mixing, therefore gentle on bacteria
- ✓ Extended substrate options
- ✓ Particularly suitable for challenging, structured substrates and high dry matter contents
- ✓ Robust, durable, low-maintenance

TANK REVISION

Safe, flexible and efficient biogas plant operation is closely linked to the condition of the tanks and the storage of the biogas. After a few years in operation, the tanks and gas storage tanks have to be refurbished. This is an ideal moment to modernize the tanks holistically and thus to adjust a substantial part of the biogas plant to „the future“.

We have a wide range of repowering and revision measures in our portfolio for you:

- ✓ Container leaking or coating renewal necessary?
With the FormProtect® revision system, your container becomes gas-tight and acid-resistant again.
- ✓ Need more storage capacity? Replacement of the gas storage due? Are you planning to switch from a single shell to a double membrane?
Our high-quality and durable double membrane cover is the ideal solution for flexible storage of biogas.
- ✓ Submersible agitator susceptible? Mixing not optimal? High power consumption during stirring? Demanding substrates planned?
Switch to a paddle agitator!

Excellent service Comprehensive and thorough.

ONE-STOP SERVICE – YOU CAN RELY UPON!

Assuming a biogas plant-life of 20 years minimum, it becomes clear how significant a reliable service partner is for the operating results. In the long term, high-quality engineering, reliable service and continuous updates are decisive for the profitability of your biogas plant. As far as updates are concerned, we at agriKomp consider them to be not only technical and biological innovations and improvements, but also a permanent further development and consolidation of our employees' know-how.

THOROUGHLY TRAINED SPECIALISTS – HIGHLY MOTIVATED!

Many of our staff are from the agricultural community, or are closely tied to it. They are fully supportive of renewable energy and the chances that these forms of energy bring for rural regions. Our teams participate in seminars and training programs on a regular basis. Here, we place special emphasis on the fact that our specialists understand all the processes of the operation of a biogas plant, not only within their area of expertise. Furthermore, our model consistency ensures that every component has its place.

STANDARDISED TECHNOLOGY – SECURE SUPPLIES!

Our engineering places its emphasis on solid quality and long life. The high level of standardisation of our plants and components ensures a long-term and reliable spare parts supply. A comprehensive and centrally located material depot provides a reliable spare parts supply – from the smallest screw up to a complete CHP station!

CLOSE BY YOU – SHORT REACTION TIMES

In an emergency, time is of the essence! Regardless of how many kilometres apart we may be. Our service staff at their terminals can analyse quickly by remote maintenance and remedy the fault. Furthermore, mobile teams are ready to go from our close-meshed regional service points.

Our in-house staff consist of CHP, plant, service and spare parts teams, working two-shift systems, seven days a week! The technical stand-by service on week-ends and Bank Holidays is a matter of course for us.

OUR SPECIALISTS – ALWAYS AT YOUR SIDE

Mechatronics, construction, electrical, mechanical and heating engineers, farmers, process engineers, agricultural engineers, biologists, agricultural machine technicians, are all at your disposal:

- ✓ **CHP and biogas upgrading service**
Service and emergencies, via remote maintenance or on site
- ✓ **Plant service**
Biological and technical advice and commissioning
- ✓ **Electrical service**
Advice and service associated with electrotechnology and plant control
- ✓ **Laboratory service**
Anaerobic digestion testing laboratory to determine residual gas and substrate potential, analysis laboratory for controlling digester biology
- ✓ **Planning service**
Individual planning of various building projects

QUALITY CONTROL – CERTIFIED TECHNOLOGY AND PERSONNEL

A high standard - ISO 9001 certification and CE-conformity are strict framework conditions which we undergo voluntarily in order to ensure and continuously improve the high quality of our engineering as well as the skills of our employees.

Currently:
ISO Certification: DIN ISO 9001
Laboratory round robin test: annually



Our references
speak for
themselves.



A	Barthelmess Dinkelsbühl, Germany
Type:	agriSelect®
Commissioning:	2020
Installed capacity:	75 kW _{el}



FOLLOW THIS LINK TO
THE VIDEO OF THE PLANT



B	Métha Treil SAS Le Treil, France
Type:	agriPure®
Commissioning:	2019, Extension 2022
Installed capacity [Nm³/h]	500 Nm³/h (biogas)
Components:	2x Pre-pit, 2x Digester, 1x Post-digester, 1x Storage, 1x Vielfraß® LEF 75 m³ liquid feed, 5x Paddelgigant®, 3x agri-Mix, 3x Double membrane roof, 1x Quetschprofi®
Specialities:	Recovery and commercialisation of CO ₂ . Processing of residues from vegetable cultivation.



C	GAEC de Raymiluc Beauvoir, France
Type:	agriSelect®
Commissioning:	2018
Installed capacity:	195 kW _{el}
Components:	2x Pre-pit, 1x Digester, 1x Storage, 1x BGA 136, 1x agri-Clean 150, 1x Vielfraß® BT 50 m³, 2x Paddelgigant®, 2x Biolene®, 2x Submersible agitator
Specialities:	Valorization of the intermediate crops of the farm and covered storage with gas recovery

D	AVENA spol. s r.o. Knapovec, Czech Republic
Type:	Indi plant
Commissioning:	2011
Installed capacity:	1.500 kW _{el}
Components:	2x Digester, 2x Post-digester, 2x Storage, 6x CHP à 250 kW _{el} , 2x Vielfraß® 50 m³, 8x Paddelgigant®, 3x Submersible agitator, 4x Biolene®, 1x Quetschprofi®



E	GTG Biogas Ltd. Toomebridge, Northern Ireland
Type:	Indi plant
Commissioning:	2011
Installed capacity:	500 kW _{el}
Components:	1x Pre-pit, 1x Digester, 1x Post-digester, 1x Storage, 2x BGA 158, 1x Vielfraß® 40m³, 4x Paddelgigant®, 2x Biolene®, 1x Quetschprofi®, 2x Submersible agitator
Specialities:	1 st agriKomp plant in Northern Ireland. It is located on an old military airbase.



F	Az. Agr. B.R. Lombardy, Italy
Type:	Indi plant
Commissioning:	2007
Installed capacity:	1.000 kW _{el}
Components:	2x Digester, 2x Post-digester, 2x Storage, 4x CHP à 250 kW _{el} , 2x Vielfraß® 50m³, 8x Paddelgigant®, 4x Biolene®



Our references
speak for
themselves.

A FAMILY BUSINESS IN
SOUTHERN GERMANY!

«We run a family farm in southern germany with 180 cows and their offspring and have had an agriSelect for a short time. The cooperation with agriKomp has always been smooth, flawless and very obliging from the very beginning. From the planning to the construction and now afterwards with the service and subsequent advice on the operation of the system.»

Josef Wutz



G Josef Wutz
Schönthal, GER

Plant type:	agriSelect®
Commissioning:	2018
Inst. capacity:	75 kW _{el}
Operator:	Family farm with 180 cows

Specials: The plant runs 100% on cattle manure & slurry



FOLLOW THIS LINK
TO THE PLANT-VIDEO



RELIABLE WITH LOCAL SERVICE

«Phase 1 of our biogas project was commissioned in 2018 with a single digester. We always intended to extend the plant with a post digester to maximise conversion efficiency of the feedstock, so in 2021 agriKomp completed this phase 2 work. We chose agriKomp because of the operational simplicity and reliability of their plants along with the availability of local service support.»

John McAuley



H John McAuley
Cookstown, UK

Plant type:	Individual Plant
Commissioning:	2018, Extension 2021
Inst. capacity:	500 kW _{el}
Input:	Grass silage, cattle manure & slurry, poultry manure
Specials:	Successful construction commissioning and integration of post digester as second phase of project.

I SAS Chemin du Roi
Saint-Crépin-Ibouwillers, FR

Plant type:	agriPure®
Comissioning:	2021 (2025 repowering)
Inst. capacity:	1100 Nm³/h (biogas)
Operator:	Collective of several farms with mixed cultivation
Specials:	The plant was upgraded to an agriPure® Cube in 2025 and expanded with a CO ₂ liquefaction system, which is sold on to the industry.



THIS WAY TO THE
VIRTUAL TOUR

IN JUST 3 YEARS TO FEEDING
INTO THE GAS GRID

«We started thinking about our project at the end of 2017 when we learned that we would be allowed to feed into the GRTgaz grid nearby. Then, at the beginning of 2018, the decision was made to implement this project. We chose agriKomp because of the ease of operation and the proximity to the sales staff and technical managers. We had already visited many biogas plants, including several from agriKomp, which convinced us in terms of technology and operational management.»

Grégoire Omont

