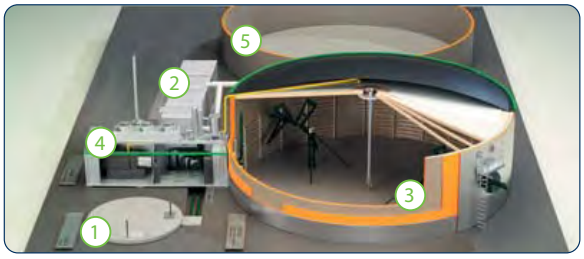
Schmack BioEnergy
The Future of Energy

COCCUS® Titan

Standardized Anaerobic Digestion System

Are your feedstocks relatively low energy density such as liquid cow or pig manure? If so, we recommend the COCCUS® Titan plant system. It consists of at least one traditional pit storage digester and is particularly suitable for the digestion of feedstocks with low dry-matter contents.

Our tried-and-tested system



1. CALIX reception pit
2. PASCO feeding system
3. At least one COCCUS® TS pit storage digester
4. Generator and professional control system in the AIO (all-in-one) technical-system container
5. SULA storage tank

A reliable start

With a professional planning and approval phase, we ensure that construction of the plant can start without delay. Experienced installation teams and the standardized nature of the plant systems allow trouble-free construction of the biogas plant.

A safe start-up

Even after construction is complete, we continue to assist in your continued success. We provide training for your plant system on an individual basis and work with you in order to get your biogas plant up and running from a technological and biological point of view. We hand over your plant to you for regular operation only after we have verified its performance.

Stable operation

You can rely on Schmack Bioenergy even during regular operation. With our comprehensive technical and biological service, we are able to ensure that your plant remains operational on a permanent basis.

Remaining flexible

Do you have additional manure available or would you like to digest mainly renewable raw materials in your biogas plant in the future? No problem - you can expand your existing plant at any time.

1. You can integrate additional COCCUS® TS digesters into the existing pit storage system or
2. You can expand the existing system by adding the EUCO® TS plug-flow digester to the EUCO® Titan plant system.

If electricity is your objective, the generator and the plant systems can be quickly and easily matched to the optimum output level using the AIO (all-in-one) technical-system container.

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COCCUS® TS
Anaerobic Digester with Sulfur Removal

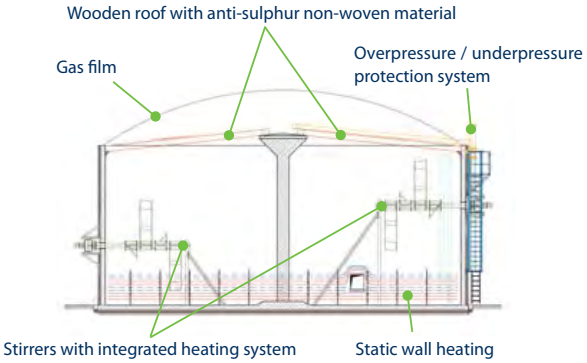
An important part of the COCCUS® Titan plant system is the COCCUS® TS. As a traditional pit storage digester, it is particularly suitable for feedstocks with a low dry-matter content.

Gas traps are made of stainless steel with the following characteristics:

- A registered utility model - no comparable system available on the market
- Extremely resilient thanks to high-quality stainless steel and sealing materials tried and tested over many years
- No mounting parts necessary in the concrete - can be retrofitted at any time to existing round containers
- Combined fixing for gas accumulator and safety net, making installation a great deal easier
- Can easily be opened up in segments for maintenance and repair work and then closed again safely
- The trap is easily accessible for inspection, making it easy to locate potential leaks
- Suitable for virtually all container diameters

Technical components:

- Heated stirrer shaft with tried-and-tested rotary paddle stirrer
- Static heat distribution on the container wall
- Highly variable transmission unit, allows system to be adjusted to suit the substrate
- Shafts are arranged opposite each other at different heights to allow the forced mixing of the entire digester volume
- Tried-and-tested storage and sealing systems
- Wooden roof with anti-sulphur non-woven material for natural, biological desulphurization.
- Air-metering station as a complete unit
- Gas accumulator made from EPDM (1.5 mm) with safety net, overpressure and underpressure protection system
- All metal parts in the gas area are made from stainless steel



Advantages of this method of construction

- The standardized plant system leads to a progressive reduces capital costs
- Low energy requirements of the plant itself
- Combined heating system for ideal temperature distribution and therefore constant, optimum living conditions for the bacteria
- Optimized heat distribution allows greater volumetric loading and therefore greater efficiency
- High-quality stainless steel and sealing materials tried and tested over many years
- Plant system can easily be expanded at any time

COCCUS® Titan plant system – technology which achieves the optimum!

	COCCUS® Titan 185 AIO	COCCUS® Titan 350 AIO	COCCUS® Titan 500 AIO	COCCUS® Titan 640 AIO
Cogeneration unit	185 kW	347 kW	499 kW	640 kW
PASCO	20 m^3	30 m^3	60 m^3	80 m^3
COCCUS TS	1,200 m^3	1,800 m^3	2,000 m^3	2,400 m^3
CALIX	50 m^3	100 m^3	150 m^3	200 m^3
Area required* approx.	520 m^2	3,340 m^2	4,050 m^2	4,160 m^2

Are you interested?

For Additional Information,
call us at +1 (216) 986 - 9999