

Biogas floating cover

Genap



The Biogas floating cover is a floating cover system for collecting biogas from digestate that Genap developed in cooperation with N-E-ST based in Ahaus, Germany.

The floating cover is suitable for all types of slurry silos and is a sensible alternative to conventional covers. As this cover does not impose any static requirements on the slurry storage system, it can be fitted to both new and existing slurry silos.

The floating cover floats on the substrate and adapts to the filling level of the silo. As a result, no additional gas space is created. A gas compressor system ensures that residual biogas is automatically extracted and fed back to the main gas stream. This prevents gas from accumulating under the cover while at the same time preventing aggressive acids from corroding the concrete. The extracted biogas that is fed back to the main gas stream, can be used to generate additional revenue. Another option is to incinerate the gas through a flare unit.

The implemented ring-shaped float tube has a slightly smaller circumference than the silo inner diameter. In addition, star-shaped additional floats with gas outlets are used for gas extraction. The floating cover is stretched over this structure.

The floating cover construction and its gas extraction system ensure automatic rainwater drainage. This saves the additional costs of separately pumping out the water.

Technical data

- Up to 40 metres in diameter
- Including floats and gas compressor system
- Does not impose any structural requirements on the silo
- Rainwater can be drained
- No corrosion protection is required for the inner wall of the silo
- 5 year warranty (diminishing)

Options

- One or more mixing hatches
- Colour options: grey and green



- ✓ Cost-effective alternative to a double membrane roof cover
- ✓ Adds extra capacity by extracting the residual gas
- ✓ Covers silo completely and prevents mixing with rainwater

Would you like more information?

Go to [genapagro.com](https://www.genapagro.com) or contact us directly to discuss the options.



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