

Gas processing

Upgrading biogas to consumer natural gas quality

Interest in processing biogas for feeding into the public gas network is increasing. This is particularly the case where an adequate outlet for CHP heat near the biogas unit is not available.

BD AGRO recognised this need already at an early stage. The gas handling systems of all BD AGRO units, from UniFerm to MegaFerm, are designed to integrate gas upgrading and gas processing equipment already at construction or through retrofitting.

BD AGRO biogas units are particularly suited to the production of up-graded gas due to the following technical features:

- The low process heat energy requirement.
- The structure of the biogas units supports the production of raw biogas with a high methane concentration reducing the capital and running costs of gas desulphurisation and upgrading.
- The large gas storage capacity overcomes temporary limitations in gas network uptake capacity.
- The two stage unit system supports a constant gas quality and reduces gas processing breakdown risks.

The result is a higher efficiency of the whole system.





BD AGRO offers three gas processing options:

- Pressurised water scrubbing (Pressure Exchange Absorption),
- Pressure Swing Adsorption (PSA) and
- Amine-based scrubbing (Monoethanolamine scrubbing - MEA)

BD AGRO biogas units can be integrated into all biogas processing systems.

We are here to help you find the optimal solution for your needs:

- What gas quality is required (methane and hydrogen sulphide concentration)?
- Characteristics of the local gas network (pressure level, type of gas)?
- Will bio-methane be fed only into the public network or will motor fuel be produced (CNG)?
- Is heat available for gas processing at an acceptable cost?
- How can the heat needs of the system be met?

Whatever your circumstances, BD AGRO has the answers and is the perfect partner for the technology, unit operation and gas marketing.

Be assured of the sustainability of your biogas plant.



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