

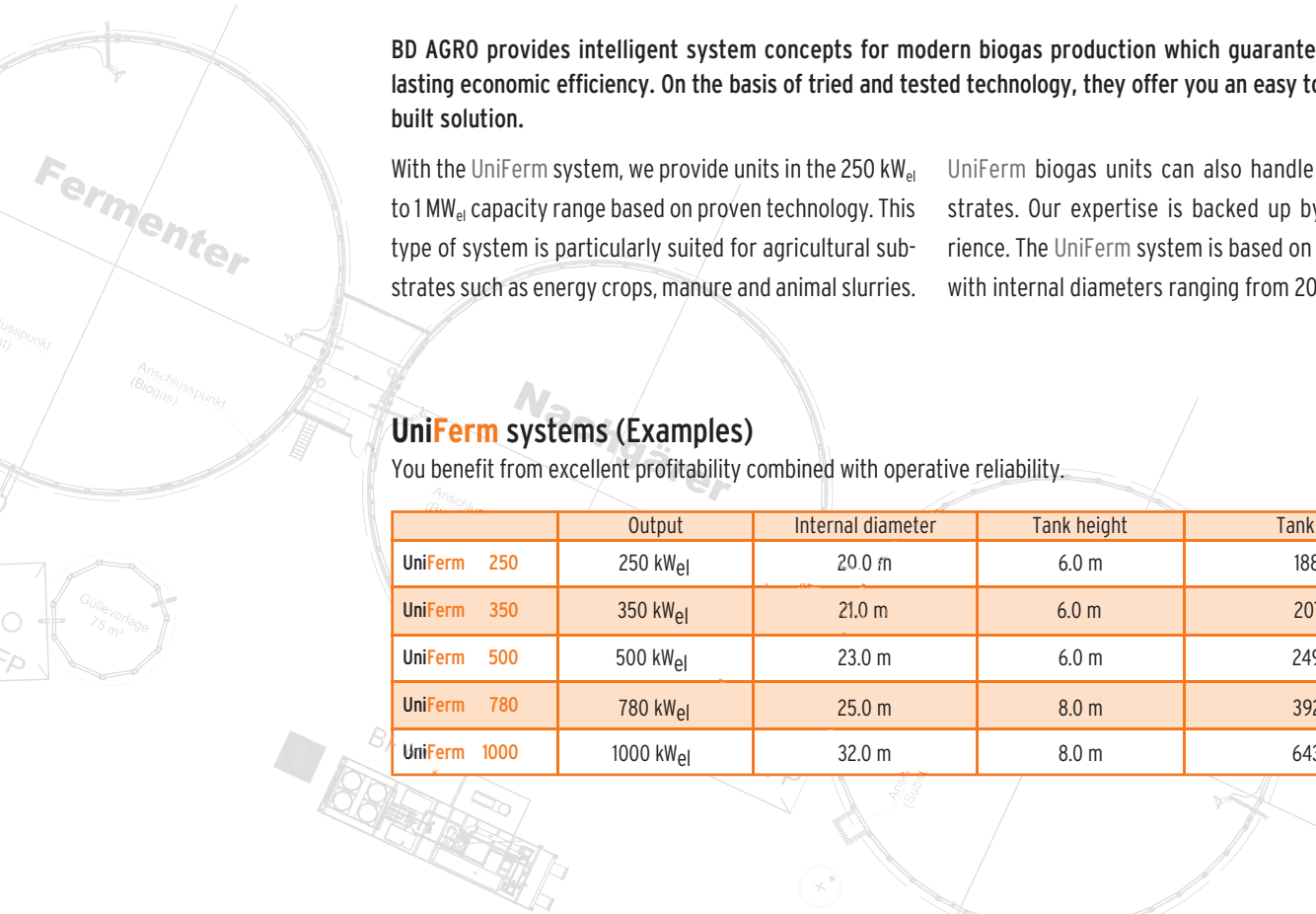
UniFerm

Biogas units with between 250 kW_{el} and 1 MW_{el} capacity

BD AGRO provides intelligent system concepts for modern biogas production which guarantee reliability and lasting economic efficiency. On the basis of tried and tested technology, they offer you an easy to handle, custom built solution.

With the UniFerm system, we provide units in the 250 kW_{el} to 1 MW_{el} capacity range based on proven technology. This type of system is particularly suited for agricultural substrates such as energy crops, manure and animal slurries.

UniFerm biogas units can also handle slurry-free substrates. Our expertise is backed up by years of experience. The UniFerm system is based on 6-8 m high tanks with internal diameters ranging from 20 to 32 m.



UniFerm systems (Examples)

You benefit from excellent profitability combined with operative reliability.

	Output	Internal diameter	Tank height	Tank volume
UniFerm 250	250 kW _{el}	20.0 m	6.0 m	1885 m ³
UniFerm 350	350 kW _{el}	21.0 m	6.0 m	2075 m ³
UniFerm 500	500 kW _{el}	23.0 m	6.0 m	2490 m ³
UniFerm 780	780 kW _{el}	25.0 m	8.0 m	3925 m ³
UniFerm 1000	1000 kW _{el}	32.0 m	8.0 m	6430 m ³





Large tank volumes and hence long retention times guarantee high gas yields from the input materials used.

The internal heating system, made of PE or stainless steel, especially developed for use in biogas units, ensures a rapid and effective heat transfer to the substrate. The substrate is homogenised using submerged motorised agitators especially designed to meet the special needs of biogas units. As a matter of principle, only low maintenance and particularly energy-efficient agitators are used.

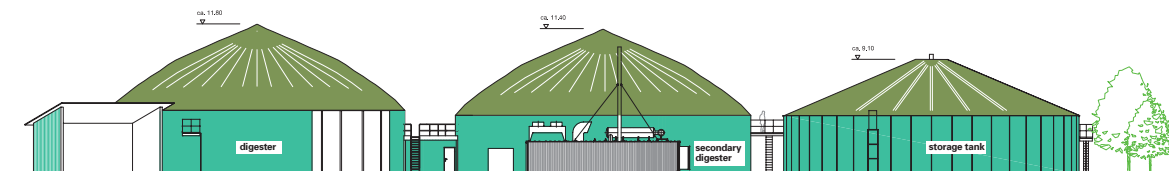
The benefits you obtain from the use of the proven double-membrane roofs combining a gas-proof membrane and a weather-proof cover are high gas storage capacity, a stable gas quality with minimum temperature variations, and hence maximum unit reliability. We carefully consider the needs and wishes of the customer in identifying the ideal combined heat

and power unit (CHP), uses for heat, or technology for delivering gas to the public natural gas network.

BD AGRO uses only industry standard components. Whether it be valves, fittings and mountings, or sensors: all components are of the highest quality and perfectly matched to each other.

Piping is made of stainless steel or PE. The biogas unit control system BGS 500.RC developed by BD AGRO on the basis of Siemens S7 Simatic provides an extensive range of functions, optimal operation and a rapid response from our services, including remote servicing - in most common languages. The installed profi-bus interface allows any system parts to be connected to the PLC control without problems.

The unique BD AGRO heat use concept OptiSec enables unit operators to fully exploit heat and energy independent of the location.



UniFerm Advantages/Benefits:

- robust technology
- tried and tested
- very good price/performance ratio
- upgradeable
- large digester volume
- high energy efficiency
- worldwide availability of components
- service- and maintenance-friendly design



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