

Biogasclean BASIC - biological removal of H₂S from biogas

**BIO
GASCLEAN**

the key to efficient
and successful
utilization of biogas



Key features of **Biogasclean BASIC**:

- **Most affordable**; the tank is without grating and not designed for being filled with water and the machine room is skid mounted.
- **The PTU** – the Process Technique Unit - is the machine room with PLC controller board, circulation pump, air blower, valves, flow meters and - if required – also heating system installed on a skid.
- **The scrubber tank** is manufactured in high quality fiberglass. The tank is supplied with **ladder and handrail**. We manufacture fiberglass tanks in several countries to reduce transportation costs.
- **The packing media** is manufactured in plastic and shall be moved outside the tank for cleaning.
- **Safety**; injection of air into biogas is only safe with a reliable control system. The PLC receives signals from an oxygen meter and will reduce or stop air injection in case the oxygen content in the clean gas gets too high.

*Plant: Sri Jelutung
Palm Oil Mill
Malaysia*

*Capacity: 800 m³/h
3,000 ppm H₂S*



Plant: Charoen Pokphand
Foods
Malaysia

Capacity: 300 m³/h
3,500 ppm H₂S



- **Automatic operation;** the system is automatically controlled by the PLC controller board which reduces the risk for manual errors and operation problems. The main function is to provide safe, optimal and stable conditions for the biological process. The signals can be made available in the control room.

- **Low operating costs;** the system uses no chemicals and has a very low electrical consumption. In many projects we use treated water from an anaerobic digester or an aeration pond as scrubber liquid and nutrient source. This is cheaper than soft water and industrial fertilizer. To prevent clogging inside the scrubber tank the water is first pre-treated in the **MUW® - Make Up Water - system.**

- **Guaranteed performance;** we provide performance guarantees on all projects.

- **Tailor made;** we design each system to the project specific biogas flow and H₂S load.

Biogasclean A/S

Biogasclean is specialized in biological desulfurization of biogas without the use of chemicals. We develop, manufacture and supply fully automated gas cleaning systems for H₂S removal combining low operating costs with high availability. Our track record comprises mid 2018 more than 235 plants in operation or under construction in 40 countries. Biogasclean supplies clean gas to more than 540 MW gas engines and boilers and removes sulfur from biogas upgrading units.



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