

Biogasclean BASIC - biological desulfurization of biogas and CO₂



Biogasclean BASIC is typically used at palm oil mills and cassava starch factories in tropical countries and have the following key features:

- **Most affordable;** the tank is without grating and not designed for being filled with water and the engine room is skid mounted.
- **The PTU** – the Process Technique Unit - is the engine room with PLC controller board, circulation pump, air blower, valves, flow meters and - if required – also heating system installed on a skid.
- **The reactor 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 or oxygen 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.

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Plant: Elphil
Palm Oil Mill
Malaysia
Capacity: 800 m³/h
(470 scfm) biogas
3,000 ppm H₂S



Plant: Sri Jelutung
Palm Oil Mill
Malaysia

Capacity: 800 m³/h
(470 scfm) biogas
3,000 ppm H₂S

- **Efficient and reliable 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 stable conditions for the biological process and to ensure safe and reliable production. The signals are available in the control room and can be accessed for remote process control.
- **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.

Biogasclean A/S

Biogasclean is specialized in biological desulfurization and methanation of biogas and CO₂. We develop, manufacture and supply fully automated gas treatment systems combining low operating costs with high availability. Our track record comprises +340 plants in operation or under construction in +40 countries. Biogasclean supplies clean gas to +700 MW gas engines and boilers and removes sulfur from +35 biogas upgrading plants for biomethane (RNG).

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