

# Biogasclean **ECO** - biological removal of H<sub>2</sub>S from biogas



## Key features of Biogasclean ECO:

- **Easy to ship worldwide;** the gas cleaner can be loaded on a truck or shipped worldwide in one forty feet container.
- **The PTU** – the Process Technique Unit - is the engine room and contains PLC controller board, circulation pump, air blower, valves, flow meters and – if required – heating system installed in a small custom-made fiberglass container.
- **The reactor tank** is manufactured in high quality fiberglass and supplied with a grating so it is possible to inspect the tank underneath the packing media. The tank is supplied with ladder and handrail.
- **The packing media** is manufactured in plastic and can be cleaned inside the tank. This will reduce downtime and increase revenues.
- **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. If the PTU is enclosed, the safety system will remove the ignition source by cutting the power supply in case the gas detector should measure above 25% of the Lower Explosive Level (LEL) of CH<sub>4</sub>.

Plant: Sika Farm  
Philippines

Capacity: 250 m<sup>3</sup>/h (147 scfm)  
2,500 ppm H<sub>2</sub>S





Plant: Sanut Dominicana  
Dominican Republic

Capacity: 230 m<sup>3</sup>/h  
(135 scfm)  
1,700 ppm H<sub>2</sub>S

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

#### Biogasclean A/S

*Biogasclean is specialized in biological desulfurization and methanation of biogas. We develop, manufacture and supply fully automated gas conditioning systems combining low operating costs with high availability. Our track record comprises more than 300 plants in operation or under construction in 40 countries. Biogasclean supplies clean gas to more than 650 MW gas engines and boilers and removes sulfur from more than 30 biogas upgrading plants for RNG production.*

**BIO GASCLEAN** | The key to innovative and efficient production of biogas

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