

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



## Key features of Biogasclean BASIC:

- **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.

*Plant:* Sri Jelutung  
Palm Oil Mill  
Malaysia

*Capacity:* 800 m<sup>3</sup>/h  
(470 scfm) biogas  
3,000 ppm H<sub>2</sub>S



Plant: Charoen Pokphand  
Foods  
Malaysia

Capacity: 300 m<sup>3</sup>/h  
(176 scfm) biogas  
3,500 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 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<sup>®</sup> - 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. 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

**Biogasclean A/S**  
Ørbækvej 268  
DK-5220 Odense SØ  
Denmark  
T (+45) 6617 2177  
www.biogasclean.com

**Biogasclean (Thailand) Ltd.**  
331 Moo 2, Unit S1/2  
Soi Thetsaban Bangpoo 54  
Sukhumvit Rd., T. Taiban, A. Muang  
Samutprakarn 10270, Thailand  
T (+66) (0)2 395-1157