



Plant: Nature Energy, Køng Denmark. Capacity 2,500 M<sup>3</sup>/h (1,470 scfm) biogas 7,500 ppm H<sub>2</sub>S

Biogasclean's QSR is suitable for varying levels of H<sub>2</sub>S. Its versatility has made it a popular choice globally and across different applications. It has the following features:

- **The Process Technique Unit (PTU):** is the engine room and contains a PLC controller board, a circulation pump, an air blower, valves, flow meters and, if required, a gas detector and a heating system installed either in a skid or in a custom-made fiberglass container.
- **The reactor tank** is made of high-quality fiberglass and includes a grating, allowing for easy inspection underneath the packing media. The tank is supplied with a ladder, a handrail and, if required, insulation. The tank can be filled with water. We manufacture fiberglass tanks in several countries to reduce transport-related costs.
- **The packing media** is made of plastic and it can be cleaned inside the tank with the QSR® - **Quick Sludge Removal system**. This reduces downtime and increases revenue.

- **Safety:** injecting air or oxygen into biogas can only be safe with a reliable control system. The PLC receives signals from an oxygen meter and reduces or stops air injection if the oxygen content in the clean gas is too high. The safety system removes the ignition source by cutting power supply if the gas detector measures above 25% of the Lower Explosive Level (LEL) of CH<sub>4</sub>.
- **Efficient, reliable operation:** the system is automatically controlled by the PLC controller board, reducing the risk of manual errors. It provides stable conditions for the biological process and ensures a safe, reliable production process. The data is available in the control room and can also be accessed remotely.
- **Low operating costs:** the system doesn't require 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 fertiliser. 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 our systems.



Plant: AB Brasil Pederneiras, Brazil  
Capacity: 1,430 m<sup>3</sup>/h (841 scfm) biogas 10,400 ppm H<sub>2</sub>S

## We're Biogasclean - the specialists in biological desulphurisation and methanation of biogas and CO<sub>2</sub>.

We're part of the Cycle0 Group, a leading developer that owns and operates biogas plants in Europe and beyond.

At Biogasclean, we develop, manufacture and supply fully automated gas treatment systems that combine low operating costs and high availability. Our technology is trusted by 350+ plants in operation or under construction in 40+ countries.

Get in touch today for expert advice on your desulphurisation solutions

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