

# CLEAN-BGAS® DRY Biogas Drying System

Biogas is a wet gas that needs to be dried for use in order to avoid the:

- Troubleshooting of CHP systems.
- Corrosion.
- Plugging by where the biogas is moved.

**CLEAN-BGAS® DRY** technology combines cooling and condensation techniques which allows an elimination efficiency of over 95% to be achieved, depending on the working temperature, while also offering low operating costs. This can include a recoverer-washer, which in addition to minimizing the energy needs of the operation, allows the biogas to be washed with its own condensates. This produces a partial reduction of the H<sub>2</sub>S and NH<sub>3</sub>, that accompany the biogas, which is why it can be considered a multipurpose technology.

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### Technical features

- Modular system.
- Continuous Operation.
- It can reduce water vapour and, in turn, H<sub>2</sub>S, NH<sub>3</sub>, hydrocarbons and siloxanes as needed.
- It can work, both in the suction line or pressure line within the biogas installation.
- It may include the operation control system if requested by the client .
- Automatic operation.
- High biogas moisture removal efficiency.
- Could have an energy recovery system or reheating.

### How it works

It is based on the combination of cooling and condensation. Sometimes works as a scrubber.

### Applications

- Removing water vapour from biogas.
- Partial reduction of D-type siloxanes.
- Partial reduction of H<sub>2</sub>S, NH<sub>3</sub> and hydrocarbons.
- Reduced gas temperature and relative humidity.

### Advantages

- Produces a gas stream with low-moisture content.
- High elimination efficiency.
- Low power consumption.
- Low maintenance cost.
- Completely automated.
- Robust installation.



Vertical dryer



Control Panel



Condensate pot



Inside water vapor removal



Outside water vapor removal



Vertical dryer