

GAZPACK



We clean bio gaz and oil gaz



WWW.GAZPACK.NL

ABOUT US

Gazpack was founded in 2006 as a research division under Airpack Nederland BV. Airpack's activities in the international oil and gas business led to the question of founder Mr. JP Warnar as to how gas flaring could be reduced or converted to a usable product. An oil well not only contains oil but also gas that is extracted together with the oil during production. This oil gas is highly contaminated and is therefore often not used but flared off instead. Some methods for cleaning this oil gas were already on the market but had large disadvantages such as high amount of waste product. This led to the search for a new and better way to clean oil gas.



After 8 years of extensive research together with several universities a new desulphurisation method was developed that converts the contaminated oil gas into several useful products. The patented Sulaway® method is a regenerative process that separates the sulphur (H_2S) from the biogas or oil gas producing almost pure and usable sulphur gas and clean gas without any waste.



OUR PRODUCT

Gazpack has developed a unique system for upgrading biogas from biomass to green gas. The patented system is unique in its kind because it produces **no waste**, all outputs of the process are **reusable!**

The **Gas Purifier** is the heart of the Gazpack installation and is patented under patent number 20132230.

The saturated and raw biogas enters directly from the digester into the Gas Purifier. Via a pressurised process the raw biogas is converted into three different outgoing flows.

The system is selective in the removal of sulphur (H_2S) and reduces the percentage to a level of less than 10 ppmV, thus producing a green gas stream which is ready to be used for the generation of heat energy. Moreover, the green gas is processed in such a way that it is suitable to add to the natural gas network.

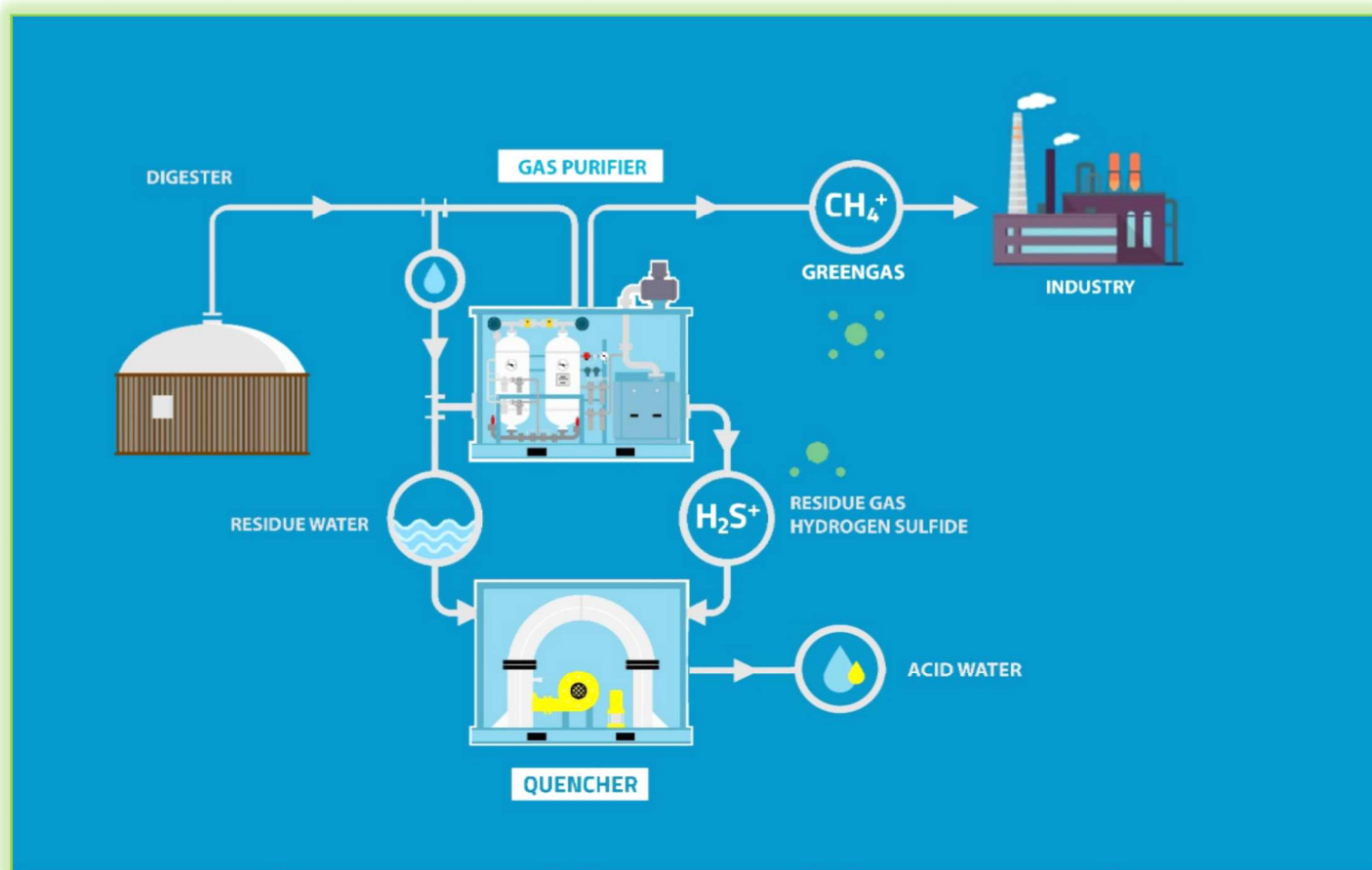


Due to the suitability of the Gas Purifier for processing very high concentrations of sulphur (H_2S), it is not necessary to add extra oxygen into the digester. The advantage of this is that it produces less environmentally harmful CO_2 gases so is less damaging to the environment. In addition to this, the process of not having to add additional oxygen ensures that the percentage of methane (CH_4) is higher which increases the market value of the gas.

The Gas Purifier also produces a gas stream which is highly saturated with sulphur (H_2S). This gas stream is harnessed and burned off in the quencher. Extinguishing the resulting flare creates a sulfuric acid that is useful for a variety of applications, including purifying ammonium saturated air.

The third stream which comes out of the Gas Purifier is waste water. This waste water is used to extinguish the flare arch within the quencher. As all outgoing streams from the Gas Purifier are useful, no waste products are produced.

All three outgoing flows are usable and no waste is being produced!



ARE YOU INTERESTED IN USEFUL DEPLOYMENT OF YOUR BIOMASS?

The Gazpack Sulaway system can be applied in various gas streams and processes. Due to the modular building configuration and custom engineering, the Gazpack Sulaway system can be integrated into any existing facilities and manufactured according to client requirements. Our experience in both oil and gas industry as well as the agricultural sector allows us to build the best suitable installation for the required application. Our system can be purchased directly or leased. Please have a look at our website or contact us directly for more information into the various options available. We look forward to speaking to you soon!

Contact information

Gazpack B.V.
Groeneweegje 25
4301 RN Zierikzee
The Netherlands
T +31 (0) 111 - 820 100
F +31 (0) 111 - 413 338
gazpack@gazpack.nl
www.gazpack.nl

