



## Custom made desulphurisation packages

- 🔥 No Waste
- 🔥 All outgoing streams are reusable
- 🔥 Low Operational costs
- 🔥 Protect your companies green image



Proud partner of Airpack Netherlands BV

# Sulaway® Unit



### The heart of the Gazpack installation

Gazpack is a company founded in 2006 which manufactures fully customer-specific installations for cleaning oil gas and biogas. With the patented Sulaway® Gazpack desulphurization method the raw and contaminated biogas is converted into a clean energy source without producing waste products.

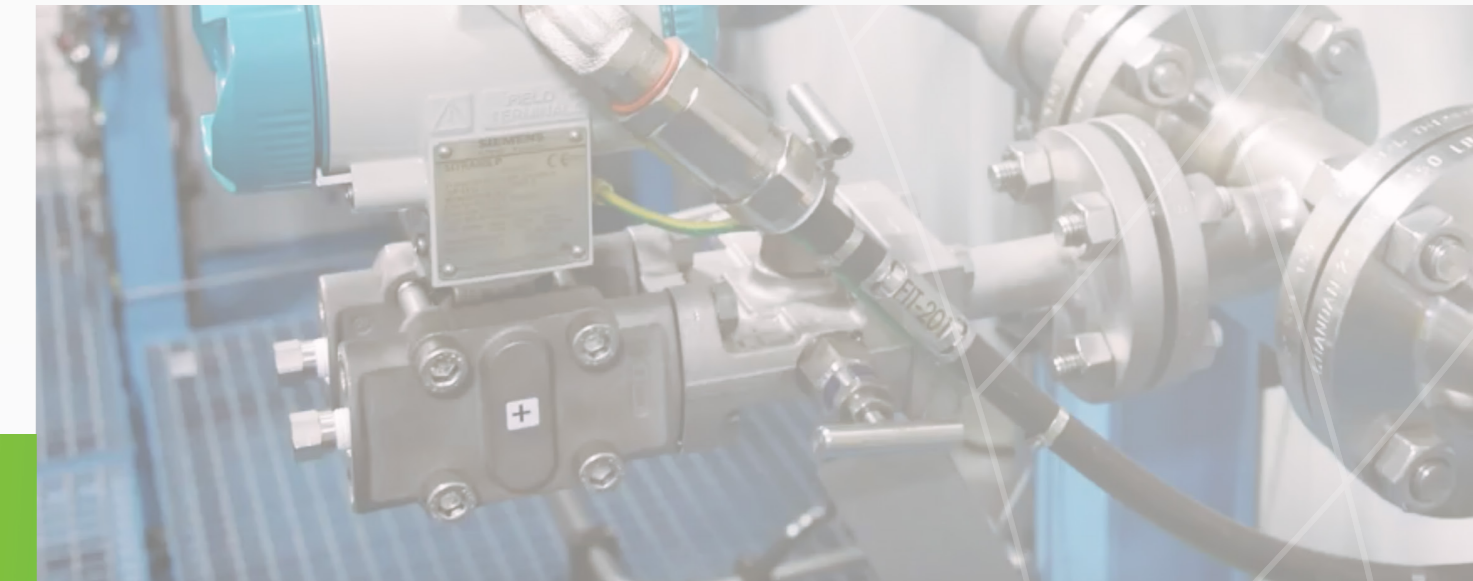
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We clean bio gas and oil gas



# History of Gazpack

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, resulting in the development of the unique patented **Sulaway®** package.

## The Sulaway® Unit

The **Sulaway®** unit is the heart of the Gazpack installation. The saturated raw gas enters directly into the gas purifier, via a pressurised process and using our patented Sulabead® the raw biogas is converted into three outgoing flows.



### 1 Clean Gas

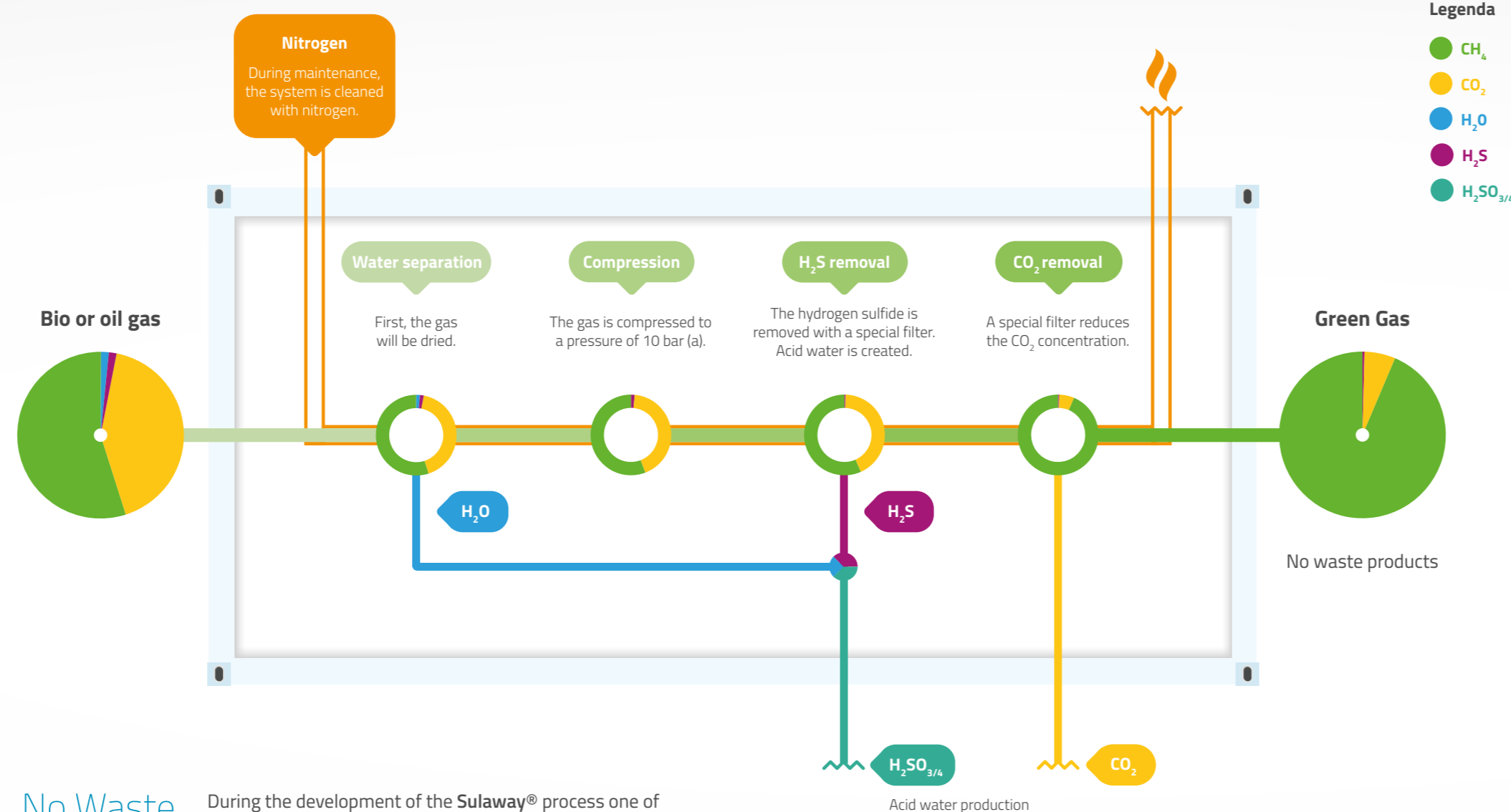
Sulphur is reduced to a level of less than 50ppmV, producing a green gas stream ready to be re-used and even suitable to be added to the natural gas network.

### 2 H<sub>2</sub>S Gas

The **Sulaway®** system produces a gas stream which is highly saturated with H<sub>2</sub>S, which can be used in several industries as an additive.

### 3 Sulphuric acid

The gas stream can then be harnessed and burned off in the quencher in order to produce sulphuric acid that is useful for a variety of applications. The essence being that the **Sulaway®** System is a closed loop system without waste product.



## No Waste Products



During the development of the **Sulaway®** process one of the core principles was to develop a system which would not only clean the gas but do so without producing any waste bi-products. The production of biogas itself is already a sustainable process and an alternative energy source. The **Sulaway®** unit only adds to this sustainable process by providing completely re-usable output streams.

## Features of the Sulaway® Unit

### 1 Safety features

All pressure regulated instruments are pneumatically controlled. In case of an emergency the installation will automatically stop and instruments will be directed to their safe positions.

### 2 Gas Enclosure

The unit is completely enclosed by a gas tight enclosure. In case of an emergency or gas leak the installation is stopped and the necessary safety procedures are conducted. There is always a backup supply of Nitrogen to have a safe shutdown.

### 3 Energy Usage

The complete energy balance of the **Sulaway®** system is well thought-out. Heat generated by the compressor is used to regenerate the **Sulabead®**. The water collected from the saturated gas is used in the quenching process.

## Contact our Sales department to find out more

The Gazpack **Sulaway®** package has been developed to be implemented in both the oil and gas and biogas industries. Both industries will not only benefit from a highly innovative, high quality product but one that produces a sustainable output, where all outputs are completely reusable boosting your green image and reducing your carbon footprint.

## Green Image

- 1 Chemicals harmful to the atmosphere**  
Reduction of toxic exhaust gas particles such as NO<sub>x</sub> CO and SO<sub>2</sub> from being emitted into the atmosphere.
- 2 Decrease of CO<sub>2</sub> content**  
The **Sulaway®** package is not only capable of removing the sulphur from the raw gas but can also remove CO<sub>2</sub>, thus reducing the Carbon Footprint!
- 3 H<sub>2</sub>S converted into a usable bi-product**  
Gazpack removes the sulphur content and generates and highly concentrated H<sub>2</sub>S gas stream.
- 4 Solid construction**  
Our packages are built to the highest of standards (gas technology market) not only taking quality and safety into consideration but also the environmental impact is considered.
- 5 No odour and gas leakages**  
We use state of the art processes to ensure that our package does not leak any odour or gases into the atmosphere.
- 6 Removal of heavy carbons**  
Our patented system also has the capabilities to remove heavier carbons such as siloxane.
- 7 Sulabead 100® is mechanically strong**  
Aggressive substances such as oxygen and cyanide do not harm the effectiveness of the **Sulabead®**
- 8 Increased Fertilizer quality (for biogas only)**  
The removed ammonia from the cattle stable can be used to enhance the quality of the left over manure increasing its fertilising capabilities substantially.