

## Dry Scrubbers and Filter Media

Our dry scrubber and filter systems remove impurities directly from your gas. We design, build, and install complete dry scrubber systems for general gas and air treatment. Moreover, we supply our filter media also independently from our filter systems.



**Metalox** : a metal oxide based filter medium that reacts with  $H_2S$  in the gas phase.

**Activated Carbon** : carbons in pellet form for general air treatment/VOC abatement, or impregnated carbons for hydrogen sulfide and ammonia removal.



### Gas cleaning with our dry scrubber system



# BiogasJG

***Your one-stop-shop for  
biogas cleaning and  
improvement***



*BiogasJG B.V. supports biogas producers in managing their desulphurisation process and improving their methane production.*

**Desulphurisation additives**

**Trace elements**

**Enzymes**

**Gas filters and filter media**

**Activated carbon**

**Dry scrubbers**

**Digestate separation polymers**

**Small sized anaerobic digester  
systems and equipment**

### Contact

**BiogasJG B.V.**

Poortweg 1 – building 040 ☎ +31 (0)164 655138

4613BW Bergen op Zoom ✉ info@biogasjg.nl

The Netherlands 🌐 www.biogasjg.com



## Desulphurisation Additives

Iron additives come in powder form, consist of a basis of iron(hydr)oxide, such as FeO (Wüstite), Fe<sub>2</sub>O<sub>3</sub> (Hematite), FeOOH (Goethite). The iron additive reacts with hydrogen sulphide (H<sub>2</sub>S) in the digester during the process of anaerobic digestion.



**FeSfix** : iron oxide based on one third FeO and two thirds Fe<sub>2</sub>O<sub>3</sub> with 50% iron (Fe) and natural trace elements.

**FeSfix-Red** : iron oxide based on two thirds FeOOH and a significant amount of Fe<sub>2</sub>O<sub>3</sub> with 50% iron (Fe).



## Enzymes

Enzymes are proteins that act as biological catalysts. Addition of enzymes to the digesters improves digestion process and enhances methane production.

### Cellulase enzyme :

supports the bacteria that convert cellulose, such as fibers of straw, maize silage, etc.

**Pectinase enzyme** : helps to convert pectin, found in for example rye.



## Trace Elements



Trace elements are needed for biochemical processes in plants, animals, humans and bacteria. Not only do trace elements play a role in biological processes but they also serve as catalysts to engage in oxidation and reduction mechanisms. Bacteria need trace elements to stay healthy.

BiogasJG makes bespoke trace element solutions based on tailor-made biological advice as well as a generic dedicated mixture for certain anaerobic digester systems.



## Semi and Fully Automatic Bioreactors

BiogasJG offers semi and fully automatic bioreactors based on Enki Energy technology as well as daily additives needed to achieve a healthy digester biology.

The Enki semi-automatic and automatic bioreactors have found their way into various areas, e.g., restaurants, hotels, catering firms and food processing industry.



## Other Services and Products

Furthermore, BiogasJG can provide biological service and advice, and if required, also supply other additives such as anti-foaming agents, products to reduce the toxicity of ammonia, polymers for digestate separation, etc.

Moreover, BiogasJG supplies a revolutionary polymer that increases the digestate separation capacity of belt dryers with almost 100%.

Together with partners, we can also design, build and install complete, or parts of, anaerobic digesters.