



## Introducing Model HS-RNG Feedstock Conditioner for Biogas Production

Spiral Water Technologies is pleased to introduce Model HS-RNG Feedstock Conditioner, a new wastewater treatment system for the production of biogas.

Designed to condition feedstocks for higher yield gas production and lower OpEx, the system integrates our proven technology with specialized process flow conditioning. It is already in use as part of a multi-stage separation approach at several dairy farms around the U.S.

Biogas results from decomposition of organic matter in anaerobic conditions. This organic matter comes from various sources, including farm animal waste products such as manure. Spiral Water's products effectively filter this wastewater stream and also concentrate solids, which can then be converted to fertilizer and sold.



Placed before an anaerobic digester, the new Spiral Water system also conditions and optimizes volatile Total Suspended Solids (TSS) and Volatile Suspended Solids (VSS) by breaking down deformable solids and making for a more nutrient-rich feedstock liquor that then goes through the specifically selected micron screens to the digester. Depending on the feedstock, with this system the anaerobic digesters are expected to create 10-30 percent more methane in the same footprint in a shorter digestion cycle time.

In addition, because the filters clean mechanically, they also remove non-digestibles from the wastewater stream. By keeping digester tanks cleaner, the filters also help to reduce OpEx.

Spiral Water systems have proven to be a key component in small and mid-sized anaerobic digestion systems. By effectively removing inorganic non-digestible solids and homogenizing digestible solids, we increase gas production as well as reduce operating costs wasted on removing non-digestible solids from the gas digester. The result is a cleaner, more productive anaerobic digester system.

Other benefits include less retention time; no chemicals; lower energy requirements; less maintenance and labor costs than with traditional systems; less CapEx and OpEx than using centrifuges; and the potential for a smaller digester footprint in a newly constructed system.

For more information, visit our [website](#), [download our flyer Maximizing Biogas Production](#), or contact us at [info@spiralwater.com](mailto:info@spiralwater.com).

## Did You Know?

Spiral Water filters are used in a wide array of industries and applications besides biogas production, including:

- Indoor agriculture and vertical farming
- Distilleries
- Aquaculture
- Food & beverage processing and treatment of food processing wastewater
- Treatment of farm waste digestate for disposal or sale
- Filtration for equipment protection in natural water source cooling systems in energy, power generation, and hydropower facilities
- Seawater filtration for protection of marine and shipboard desalination systems
- Land-based desalination systems
- Industrial water recovery and reuse targeting zero discharge, and
- industrial membrane (MBR) protection systems

[Visit our website](#) to learn more! And be sure to take advantage of our Free Filtration Audit!

## We are here to help you



**Get your free filtration audit.** Simply download and fill out our Application Data Sheet and email it to [info@spiralwater.com](mailto:info@spiralwater.com)

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Application

**Call us** at 732-629-7553 to speak with one of our technical representatives to discuss your project or learn more about Spiral Water's next generation filters.

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