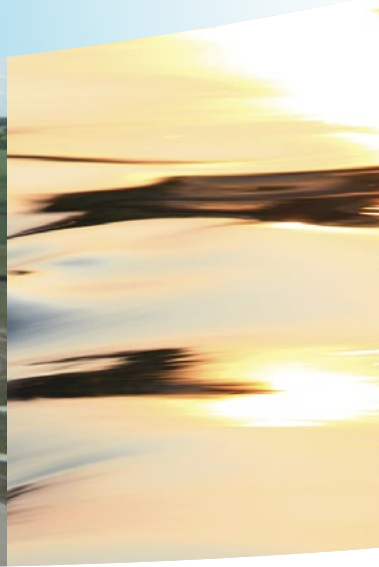




evoqua
WATER TECHNOLOGIES



DYSTOR® GAS HOLDER SYSTEMS



DYSTOR GAS HOLDER SYSTEMS OFFER MORE STORAGE VOLUME & HIGHER OPERATING PRESSURE

The Dystor® Gas Holder system from Evoqua Water Technologies is a unique gas holder design that's more economical to install than steel gas holders and more versatile and more stable than floating covers. Ideal for both primary and secondary digesters, its dome-shaped, engineered membrane system maximizes storage of methane gas and sludge, while also containing odors. Plus, a manufacturer installed system means single-source responsibility.

This system includes two durable membranes. The outer air membrane remains inflated in a fixed position and is cable restrained to ensure system integrity and allow operating pressures up to 16" w.c. An inner gas membrane moves freely as it stores or releases gas generated from the anaerobic digestion process.

An air handling system maintains a preset operating pressure between the two membranes. A fan supplies air to the air chamber when methane gas is withdrawn and a pressure air control valve vents air to accommodate increasing gas volumes. By automatically equalizing the pressure, this system keeps the outer membrane inflated, while exerting a constant pressure on the stored gas.

Ideal for retrofitting your existing plant, the operating pressure can be set to fit into the existing equipment eliminating the need for re-ballasting the rest of the digestion system.

In addition, the membranes are sealed tight to the digestion tank wall, preventing odors from escaping.

BENEFITS

- More gas storage
- More sludge storage
- Digitally controlled
- Automatic operation
- True odor containment
- Reduced maintenance
- Very economical
- Environmentally stable
- Manufacturer installed



Dystor Air System

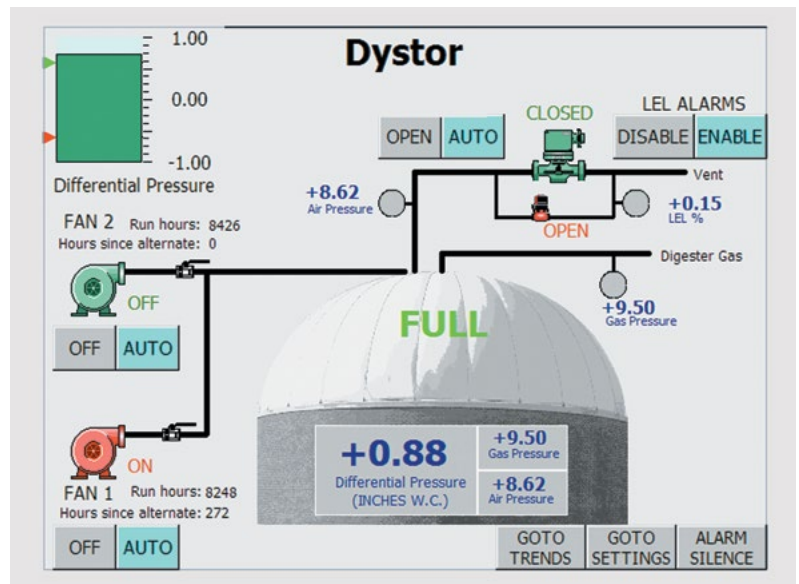


The Dystor® air control system is compact and simple to operate while offering the most advanced technology and safety features.

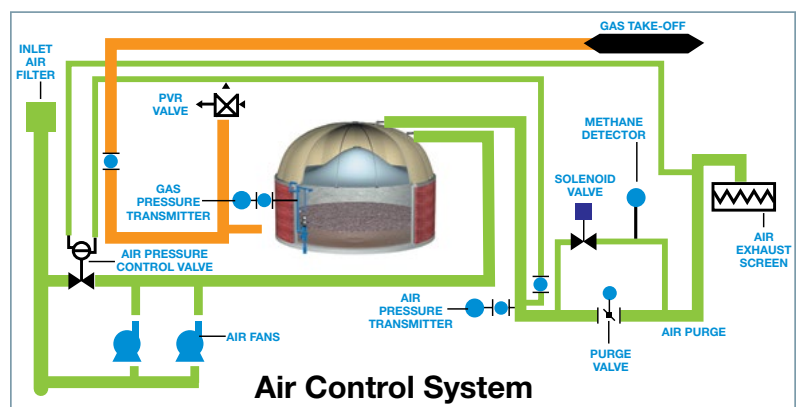
ECONOMIC ADVANTAGES

Proven in more than 125 installations, the Dystor® gas holder has a number of economic advantages over conventional steel or fiberglass gas holders and floating covers.

- Its installed cost is significantly less.
- The Dystor system holds up to six times as much gas as conventional covers maximizing the available energy benefits of the anaerobic digestion process.
- Dystor covers allow the sludge level to be varied throughout the entire tank depth, providing usable storage that is several times greater than the storage available with conventional gas holder covers and offering greater operational flexibility.
- With this membrane system ongoing maintenance such as painting, roller and guide replacement are eliminated and no re-ballasting is required.
- With high energy prices, ROI is significantly lower than with steel covers.



The operator interface is a user-friendly tool that allows system status to be immediately determined at a glance. The PLC can interact with the existing SCADA systems and is capable of interacting with other digestion equipment, including co-generation systems.



Air Control System



Envirex[®]
an EVOQUA brand



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