



evoqua
WATER TECHNOLOGIES



GASHOLDERS

SAFELY STORE AND REGULATE BIOGAS FROM ANAEROBIC DIGESTION

DOUBLE-MEMBRANE GASHOLDERS

Evoqua's Geomembrane Technologies is the exclusive distributor of VSO Biogas Technologies' double-membrane gasholders in the United States and Canada. The inner membrane holds the biogas, and the outer membrane protects the inner membrane from the elements and regulates internal pressure.

Both membranes of the gasholder are made from flexible composite materials (a polyester composite and a PVC coating), assembled using high-quality welding standards. The polyester ensures mechanical resistance and the PVC coating is treated with fungicide to ensure water-tightness as well as chemical resistance to biogas.

BENEFITS:

- Regulate and respond to fluctuations in biogas volume
- Safely store excess biogas for later use
- Reduce greenhouse gas emissions
- Increase profitability by reducing wasted biogas
- Operate digesters with lower energy demand



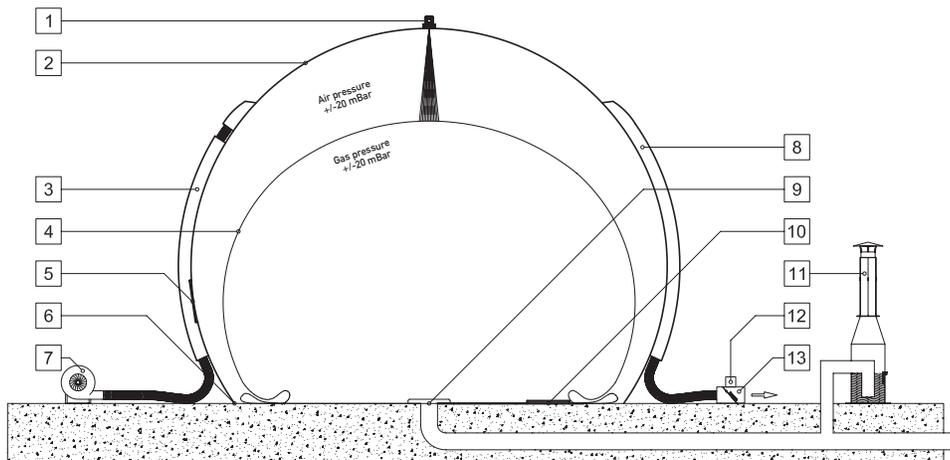
MAXIMIZE THE USE OF BIOGAS

The experts at Evoqua's Geomembrane Technologies can deliver, install, and commission these gasholders, and provide advice on how to maximize the use of biogas. The gasholders safely store and regulate the use of biogas, which can be used in engines and combined heat and power (CHP) units for electricity and heat at wastewater treatment plants, farms, and municipalities. Biogas can also be used in boilers for process heat and steam or, in some cases, sold to a local utility for profit.

Proper operation is managed by a level sensor, pressure relief valves, damper valves, and blowers. Leak detection is also available. The gasholders range in size from 1,800 ft³ - 80,000 ft³ (50 m³ - 5,000 m³).



GASHOLDER (50 to 5000 m3)



- 01 Level sensor.
- 02 Outer membrane held under tension by pressure.
- 03 Sleeve protection flap.
- 04 Inner membrane.
- 05 Translucent manhole.
- 06 Fixing ring.
- 07 Fan blowing air between two membranes (20mbar).
- 08 Air extraction sleeve.
- 09 Bottom flange, inner envelope.
- 10 Opaque manhole.
- 11 Hydraulic over pressure valve.
- 12 CH₄ gas detector.
- 13 Damper valve.



COVER & LINER SYSTEMS

With over 30 years of experience delivering solutions for demanding water and wastewater applications, Geomembrane Technologies has grown to become a global leader in cover and liner systems. We are proud to offer total turnkey solutions—everything from custom-design work, to state-of-the-art fabrication, to installation and commissioning, to aftercare service.

Geomembrane Technologies™
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