TECON
BIOGAS STORAGE SYSTEMS

Tecon – textile constructions G.m.b.H.
Double Membrane Gasholders
in Scandinavia

March 2018

Company profile

- Foundation of **Tecon – textile constructions G.m.b.H.** in the year 2000
- The founders of the company have more than 20 years experience in the field of double membrane gasholders
- Registered office in Ilz - AUSTRIA
- Major business area: **double membrane gasholders**
- World wide distribution partners

Gasholder systems

Tecon offers gasholder for following fields:

- **Municipal WWTP and landfills**
  - WWTP with anaerobic digestion and recycling of organic waste
- **Agricultural plants**
  - Utilisation of energy plants
- **Industrial plants**
  - Utilisation of organic wastes from food production (i.e., dairies, breweries and slaughterhouses)

Standard gasholder



1	Outer membrane	6	Inspection window
2	Inner membrane	7	Safety valve
3	Bottom membrane	8	Filling level measurement
4	Anchoring	9	Pressure-regulating valve
5	Air support blower	10	Non-return valve

Functional principle:

- TECON–Standard gasholder will be installed on a concrete foundation and consists of external-, internal- and bottom membrane
- The actual gas compartment is formed by the internal- and bottom membrane. The air-support blower forwards air between the internal- and external membrane. In combination with the pressure regulating valve this systems ensures a constant operating pressure.
- The operating pressure forms the external membrane and covers the wind- and snow loads.
- The installed inspection window in the external membrane ensures an optical control of the system. The exact filling measurement signal provides a rope length transducer system.
- The hydraulic safety valve protects the gasholder against over pressure.
- The gas feeding pipe and the gas withdrawal pipe are installed in the concrete foundation.

Examples



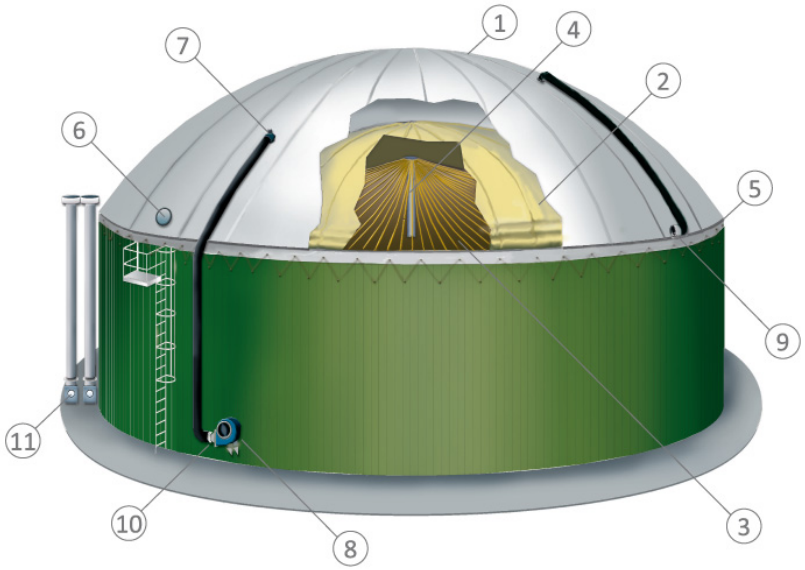




Characteristics:

- Mainly used in municipal WWTP and industrial plants
- Volume from 10 m^3 up to 20.000 m^3
- Operating pressure from 5 mbar up to 80 mbar (depending on design)

Top mounted gasholder



1	Outer membrane		
2	Inner membrane	7	Filling level measurement
3	Brace system	8	Air support blower
4	Middle mast	9	Pressure-regulating valve
5	Anchoring	10	Non-return valve
6	Inspection window	11	Safety valve

Functional principle:

- This type of gasholder will be installed on tanks and consists of external- and internal membrane and a belt support construction.
- The actual gas compartment is formed by the internal membrane. The air-support blower forwards air between the internal- and external membrane. In combination with the pressure regulating valve this systems ensures a constant operating pressure.
- The operating pressure forms the external membrane and covers the wind- and snow loads.
- The belt support construction avoids the internal membrane to fall into the tank at low gas level. This protects the internal membrane to get damaged by any built-in parts inside the tank.
- The installed inspection window in the external membrane ensures an optical control of the system. The exact filling measurement signal provides a rope length transducer system.
- The hydraulic safety valves protects the gasholder against over pressure and vacuum conditions.

Examples







Characteristics:

- Mainly used in municipal WWTP and industrial plants
- Tank diameter from 5 m up to 40 m
- Operating pressure from 5 mbar up to 20 mbar (depending on design)

Äänekoski (FIN) – 2 x 1.820 m³



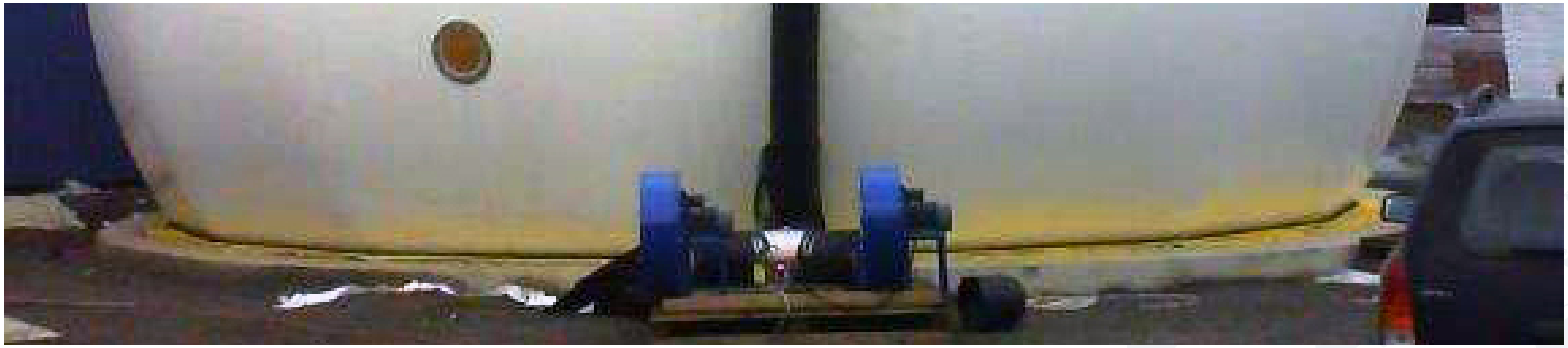
Operating pressure	20 mbar
Gas flow	450 m³/h
Max. wind load	150 km/h
Max. snow load	150 kg/m²
Year of installation	2017



Biovakka Abo (FIN) – 810 m³



Operating pressure	20 mbar
Gas flow	700 m³/h
Max. wind load	150 km/h
Max. snow load	150 kg/m²
Year of installation	2008



Hashoj (DEN) – 18,77 m + 12.000 m³



Operating pressure 18,77 m	8 mbar
Operating pressure 12.000 m³	7,5 mbar
Gas flow 18,77 m	600 m³/h
Gas flow 12.000 m³	1.910 m³/h
Max. wind load	140 km/h
Max. snow load 18,77 m	60 kg/m²
Max. snow load 12.000 m³	75 kg/m²
Year of installation 18,77 m	2007
Year of installation 12.000 m³	2007



Skogn (NOR) – 13,33 m



Operating pressure	15 mbar
Gas flow	3.000 m³/h
Max. wind load	197 km/h
Max. snow load	115 kg/m²
Year of installation	2017



Sales representative

TECON
BIOGAS STORAGE SYSTEMS

EBS, Environment & Bio Solution

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Thanks for your attention!

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