

ECOMEMBRANE

CASE HISTORY



We have told you who we are and how we work. You have read what our customers say about us. You have seen hands on what materials we use to build our gasholders.

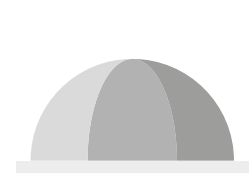
Now we would like to show you our projects.



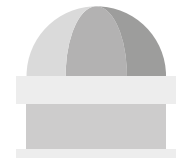
With this PhotoBook **we would like to take you on a trip with us** to see all of our types of gasholders, including those patented by us, where technology meets innovation.

We have installed them on different terrains and we have followed the particular needs of our customers. They are installed **across the entire globe**: from Minnesota to Russia, from South Korea to Italy, from Turkey to Malaysia. Some were built more than 10 years ago and are still operating perfectly.

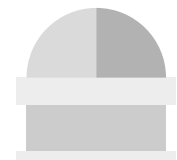
Sometimes **a picture says more than a thousand words**, so....Bon voyage!



6
3MASTER
GASHOLDERS



28
CUPOLA M3
HEAT SHIELD



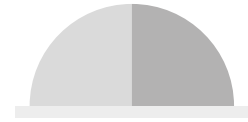
44
CUPOLA M2



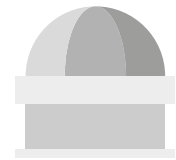
64
M1 CONE ODOR
CONTROL COVERS



84
CLARICOVER



16
2MASTER
GASHOLDERS



34
CUPOLA M3



58
ECONTAINER M2



74
FLC ODOR
CONTROL COVER



92
LAGOON
COVER



3MASTER GASHOLDERS

One of our **patents** with the aim of creating an even safer gasholder.

It's main characteristic is the addition of a third intermediate membrane, which protects the gas membrane, avoiding any gas leaks from escaping into the air chamber.



Two other characteristics make this product special: **low energy consumption**, thanks to the pump control unit with pressostatic control, and the **long service life**, due to its resistance to atmospheric agents.



3MASTER GASHOLDERS

MAABJERG, HOLSTEBRO
INDUSTRIAL PLANT

1/2 sphere – Base Diameter: 27 m
Volume: 5.000m3 each
Gas flow rate: 1.500 m3/h each
Year: 2011



Denmark



3MASTER GASHOLDERS

**SUDOKWON LANDFILL,
SEUL**

$\frac{3}{4}$ sphere – Base Diameter: 18m

Volume: 4.000m³ each

Gas flow rate: 1.680 m³/h each

Year: 2017



South Korea

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3MASTER GASHOLDERS

SUEZ, NAPOLI

$\frac{3}{4}$ sphere – Base Diameter: 26 m

Volume: 7.500m³

Gas flow rate up to 800m³/h

Year: 2020



Italy

ECOMEMBRANE
ENVIRONMENTAL TECHNOLOGY



3MASTER GASHOLDERS / ITALY





2MASTER GASHOLDERS

The classic pressurised gasholder for **high storage volume**, which can reach up to 3000 m³.

Typically designed as a 1/2-sphere or 3/4-sphere, if space is an issue, this gasholder can even be designed with a rectangular base.



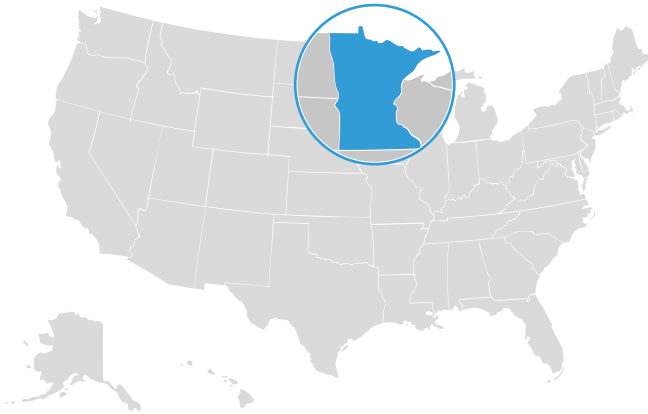
An external and internal membrane **reduce the total cost** of the product.



2MASTER GASHOLDERS

**OVIVO, MINNESOTA
ORGANIC WASTE PLANT**

½ sphere – diameter: 33m
Volume: 9.000m3 each
Gas flow rate: 2.000 m3/h each
Year: 2012



2MASTER GASHOLDERS

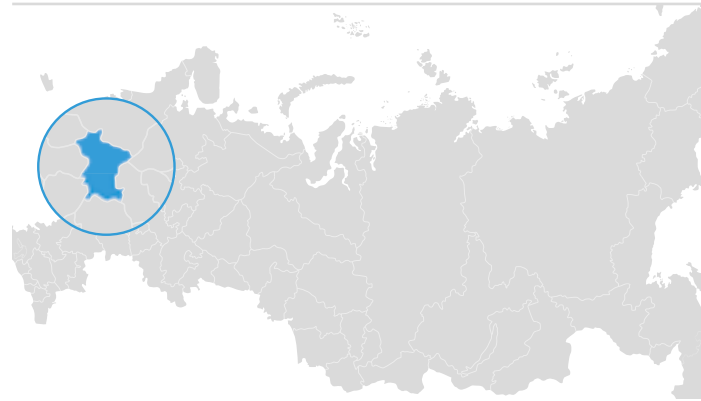
**POLIGON TIMOKHOVO,
BIOGAS PLANT**

$\frac{3}{4}$ sphere – Base Diameter: 16 m

Volume: 3.000m³ each

Gas flow rate: 2.000 m³/h each

Year: 2020



Russia

ECOMEMBRANE
ENVIRONMENTAL TECHNOLOGY



2MASTER GASHOLDERS

**IMPIANTO DI DEPURAZIONE
DI PERO (MI)**

$\frac{3}{4}$ sphere – Base Diameter: 17 m

Volume: 3.000m³

Gas flow rate: 300 m³/h

Year: 2015



Italy

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2MASTER GASHOLDERS

ITC, ANKARA LANDFILL

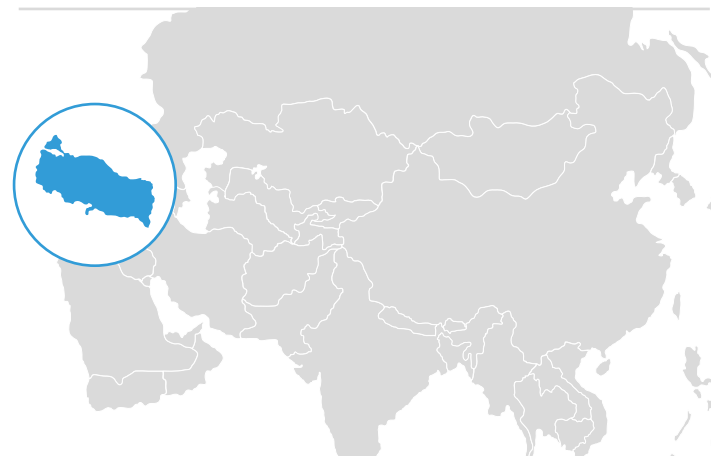
½ sphere – diameter: 41m

n. 1 2MASTER 4.000m³ – Gas flow: 2.500 m³/h

n. 2 2MASTER 16.700m³ each

Gas flow: 4.000 m³/h each

Year: 2009



Turkey





CUPOLA M3 HEAT SHIELD

An Ecomembrane **patent**, with the objective of **reducing** the digester's **heat loss** to the **maximum** (50% less). 3 membranes that allow the use of a **fan with reduced electric consumption**.



The **danger of explosion is nil** thanks to the Heat Shield intermediate isolating membrane in turn composed of 3 ultra-shielded layers.



CUPOLA M3 HEAT SHIELD

SOC. AGR. SPERANZA, CANDIOLO (TO)

¼ sphere – Diameter: 22m

Volume: 1.100m³ each

Gas flow rate: 500 m³/h

Year: 2010



Italy

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ENVIRONMENTAL TECHNOLOGY



CUPOLA M3 HEAT SHIELD / ITALY





CUPOLA M3

This is designed to **recover and accumulate biogas directly above the anaerobic digesters.**

This **patent** of ours involves **mechanical anchoring on the edge of the tank**, and an electronic device signals the filling status.



CUPOLA M3 **can also replace the old metal domes** on purification plants.



CUPOLA M3

DEPURATORE BARI OVEST

1/4 sphere – Diameter: 17m
Volume: 500m3
Gas flow rate: < 500 m3/h
Year: 2015



CUPOLA M3

DEPURATORE RIETI

1/2 sphere – Diameter: 17m

Volume: 1.200m³

Gas flow rate: 500m³/h

Year: 2018



Italy

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CUPOLA M3 / ITALY

CUPOLA M3

**DEPURATORE DI CANOVE
DI GOVONE (CN)**

1/2 sphere – Diameter: 15m
Volume: 1200m3
Gas flow rate: 130 m3/h
Year: 2015



Italy



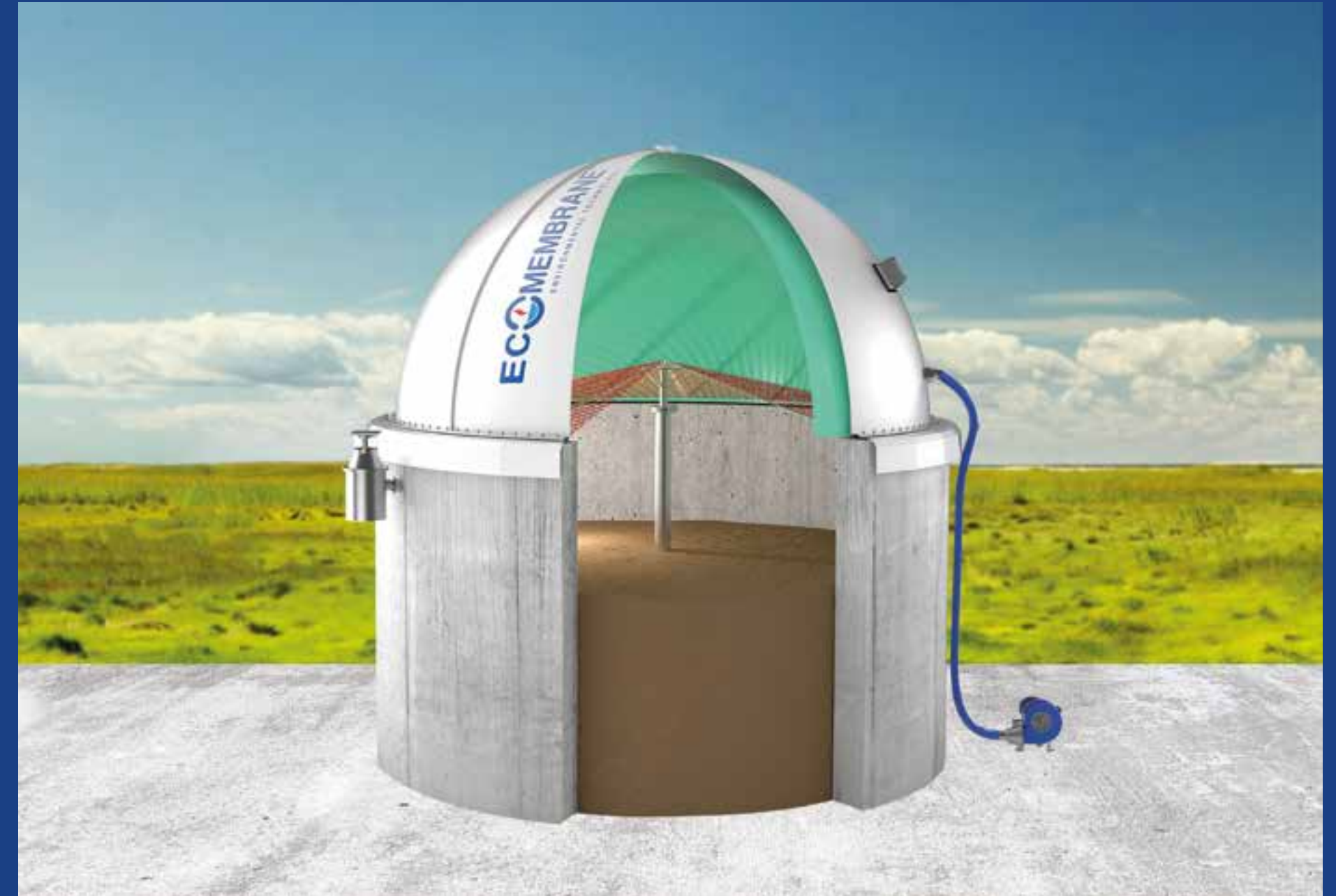


CUPOLA M2

Designed to be **used on municipal, industrial, and agricultural plants**, they can be installed quickly. They can be **customised with different materials and shapes**: reinforced membranes and sealing is used for high pressure covers.



A **support system** composed of strips and mesh with a central pole prevents direct contact between the sludge and membrane.



CUPOLA M2

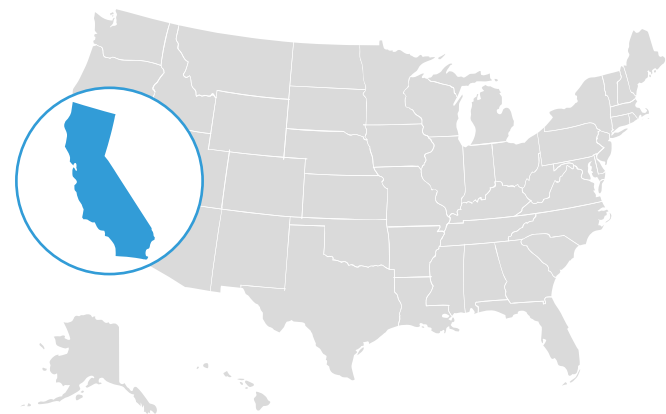
ANAERGIA, RIALTO BIOENERGY FACILITY, BLOOMINGTON

½ sphere – Diameter: 29m

Volume: 2.420m³ each

Gas flow rate: 1.610 m³/h each

Year: 2020



California - USA

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ENVIRONMENTAL TECHNOLOGY



CUPOLA M2 / USA



CUPOLA M2

**SOC. AGR. ALLEVAMENTI
CASCONI, BURANA
DI BONDENO (FE)**

1/4 sphere – Diameter: 28m
Volume: 2.500m³ each
Year: 2010



Italy



CUPOLA M2

**DOLPHIN, TENAGA
SULPOM SDN BHD, DENKIL**

1/4 sphere – Diameter: 28m
Volume: 2.422m3 each
Gas flow rate: 400 m3/h each
Year: 2019



 Selangor - Malaysia



CUPOLA M2

KRANJI WRP

½ sphere – Diameter: 21m

Volume: 2.326m³ each

Gas flow rate: 920 m³/h each

Year: 2019/2020



Singapore

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ENVIRONMENTAL TECHNOLOGY



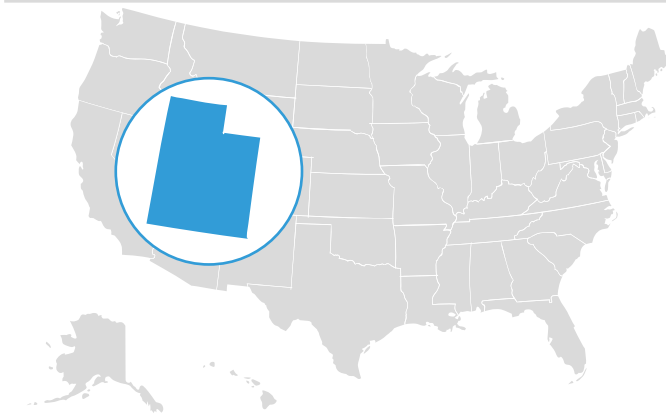
CUPOLA M2 / SINGAPORE



CUPOLA M2

WASATCH, SALT LAKE CITY, UT

½ sphere – Diameter: 33m
Volume: 3.680m³ each
Gas flow rate: 2.550 m³/h each
Year: 2019





ECONTAINER

An actual **gasholder in a container**, easy to transport and can be installed in the planned place without any special overhauls.

Inside a PVC **fabric membrane** becomes the gas storage chamber and on the outside the container is sealed as per standard, **certified**



for sea transport and watertight.
It allows the **serial** or parallel **connection** of multiple units.



ECONTAINER

HEDVIGA, PYROLYSIS UNIT, PREROV

Volume: 20m³ each
Year: 2018



Czech Republic

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ENVIRONMENTAL TECHNOLOGY





M1 CONE ODOR CONTROL COVERS

Odor control covers perfect for **pre- and final tanks**. Recognizable by their **conical shape**, which protects the tanks and their content against strong atmospheric agents.

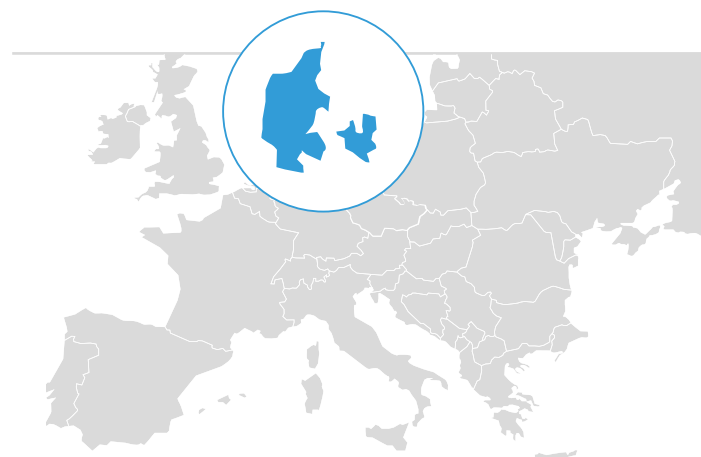
The central supporting pole in fact creates the conical shape, therefore, a pitched roof which offers **wind resistance** and helps **support the snow load**.



M1 CONE ODOR CONTROL COVERS

GRONGAS, BIOGAS PLANT, VRA

Conic shape – Diameter: 36m
Year: 2014



Denmark

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M1 CONE ODOR CONTROL COVERS

SOC. AGR. SAN MICHELE,
ROCCABIANCA (PR)

Conic shape – Diameter: 28m
Year: 2021



M1 CONE ODOR CONTROL COVERS

ZOOAGRI, CURTATONE
(MN)

Conic shape – Diameter: 23m
Year: 2020





FLC ODOR CONTROL COVER

The **floating odor control cover** is made-to-measure to reduce pollution caused by gas fumes to a minimum and to avoid the evaporation and spreading effect caused by the wind.

Its characteristic is that of remaining **constantly stretched over the surface** of the sludge



regardless of its change in variation. This is made possible by the **flexible PE foam slabs** that it is composed of.



FLC ODOR CONTROL COVER

AZ. AGR. ROBINIE, CASALETTO CEREDANO (CR)

① FLC Odor Control Cover 28m x 27m

② FLC Odor Control Cover 28m x 42m

Year: 2020



Italy

ECOMEMBRANE
ENVIRONMENTAL TECHNOLOGY



FLC ODOR CONTROL COVER

AZ. AGR. S.MARTA,
SONCINO (CR)

- 1 N.1 FLC Odor Control Cover 56m x 75m
 - 2 N.2 FLC Odor Control Cover 50m x 50m
- Year: 2020



FLC ODOR CONTROL COVER

AZ. AGR. ALLEVAMENTI
CASCONI, BURANA
DI BONDENO (FE)

Diameter: 35m
Year: 2017



Italy





CLARICOVER

An Ecomembrane **patent**, this is our unique and absolutely innovative solution that makes it possible to cover the decanting tanks of water treatment plants. In comparison to currently used solutions, it has a greatly lower investment cost and allows for quick installation (just a few weeks).



It allows direct access to maintenance personnel and can cover tanks of up to 60 m.



CLARICOVER

MASERATI ENERGIE,
SARMATO (PC)

Diameter: 23,65m
Working pressure: 4mbar
Year: 2019



CLARICOVER
GECO S.R.L. , ATELLA (PZ)

CLARICOVER
Diameter: 26 m
Working pressure: 4mbar
Year: 2016





LAGOON COVER

The **right cover for large lagoons**. It minimizes all polluting fumes and avoids the evaporation and spreading effect. It is assembled by joining parallel strips of material with seamless thermal-bonded joints.



It is suitable for **lagoons of any size** and can also be **walked on**. It is also possible to integrate the structure with a **rain water recovery system**.



LAGOON COVER

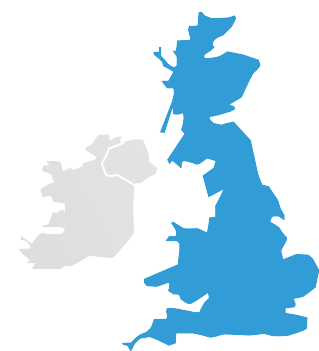
**GUY AND WRIGHT LTD,
ARKADIUSZ LAGOON - HERTS**

Rectangular shape: 37m X 51m

Volume: 7.060m³

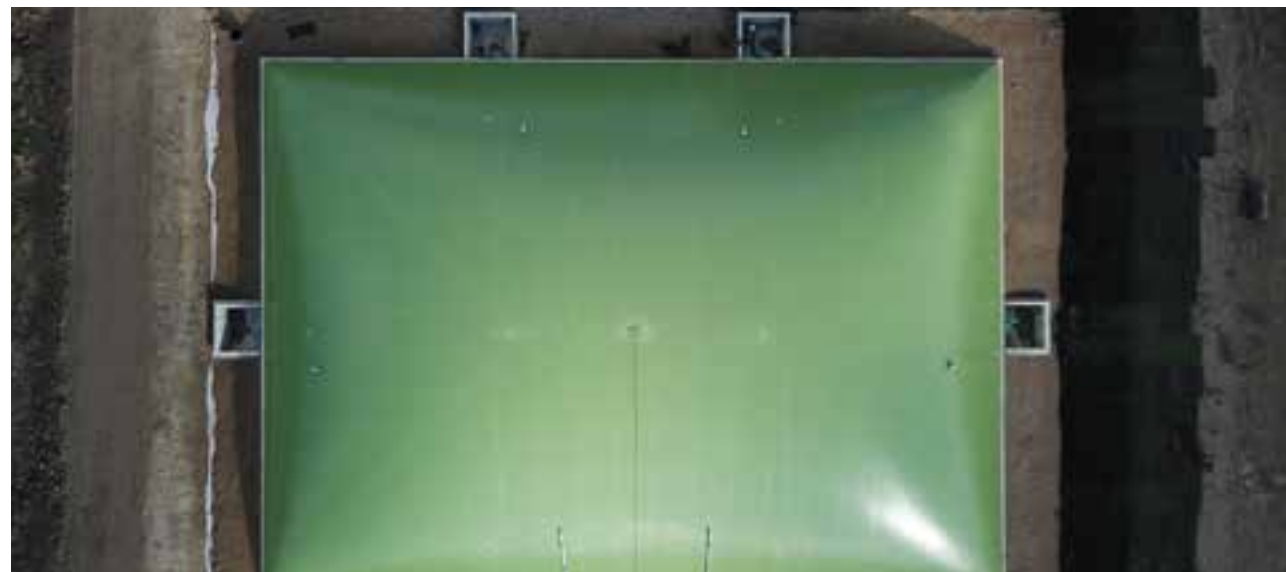
Gas flow rate: m³/h 200-400

Year: 2017



UK

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ENVIRONMENTAL TECHNOLOGY





**ADD A LEG TO OUR TRIP.
JOIN THE WORLD OF ECOMEMBRANE!**

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