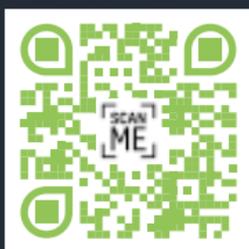


# LINTON ROBINSON

YOUR ENVIRONMENTAL PARTNER



## LINTON & ROBINSON ENVIRONMENTAL LTD

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# ABOUT

Linton and Robinson Environmental offer tailored solutions with specialisms in agricultural and other industry sectors. We have four decades of expertise in cost-effective waste management, slurry storage and renewable energy systems.

We Supply and install the latest environmental systems including Floating covers, Lagoon liners, Slurry storage tanks, Separators, Aeration systems and much more.

Our specialist products deliver proven results for customers across Europe.

We have over 40 years' experience utilising our extensive in-house technical skills to deliver bespoke solutions. We work closely with our clients to fully understand their environmental needs and ensure the smooth installation and operation of their chosen system.

All our systems are meticulously designed, installed and maintained by specially trained technicians. Free consultations with our professional in-house team are available on request. Contact us today to discuss a bespoke new environmental solution for your farming, agriculture or other industry requirements.

- ASBS Slurry Bubbler
- Floating covers
- Lined lagoons
- Tensioned covers
- Lagoon QUBE
- Netsilo tanks
- Permastore
- Separators
- Slurry bags
- JT tile covers
- Acidification



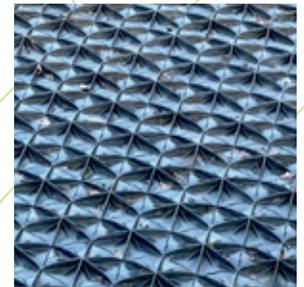
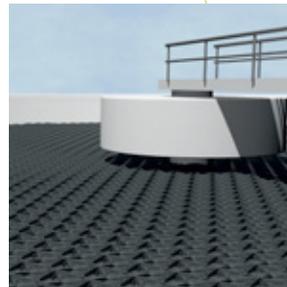
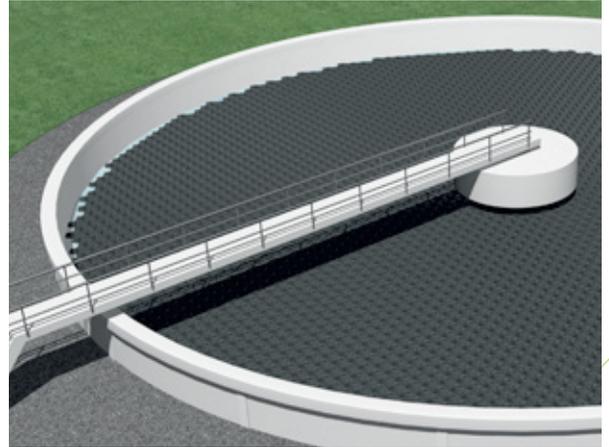
# 1 ASBS SLURRY BUBBLER



Automatic Slurry Bubble System (ASBS) is a cost-effective, energy efficient method for improved quality in slurry storage. The bespoke aeration system blows air through relay valves and circuits fixed to the tank base.

ASBS benefits include significantly reducing anaerobic bacteria like e-coli. Slurry becomes liquefied, reducing production of ammonia and noxious odours. High oxygen levels encourage a healthy climate in manure and slurry. Nutrients not lost as gases are available to spread in fields for crop growth.

# 2 JT COVERS



JT Cover is a floating and maintenance-free tile cover system for fluids made of hexagonal Cover elements. They spread on the surface and automatically form a tight cover with highly effective end results.

Odour emission, evaporation and algae formation are massively reduced using the JT Cover. This environmental solution is delivered in a simple, quick and economical way - without static load and approved construction measures – making it a popular choice for our clients.



## 3 TENSIONED ROOF



The AMTC tensioned cover is the ideal solution for your above-ground circular tank. The roof can be placed on almost any type of silo, e.g. steel or concrete. The materials used are ideally suited for manure storage systems.

The cover keeps in nitrogen that could otherwise be lost to the environment and reduces the cost of spreading rainwater normally collected by the tank. All of this helps to comply with the environmental permit for intensive farming. Environment agencies recommend covering all slurry stores.

## 4 LAGOON QUBE



LagoonQUBE is a flexible, removable lagoon cover that operates as an anaerobic digester. It is designed to float on top of a lagoon or open top tank to collect biogas and harvest rain water.

LagoonQUBE is suitable for both new and existing lagoons and tanks. Mixing equipment can be laid on the base of the lagoon/tank to enhance the natural processes of anaerobic digestion. Methane and CO<sub>2</sub> (biogas) are captured and collected, and these can be used for on-site heat and power using QUBE's PowerQUBE CHP.



# 5 FLOATING COVERS



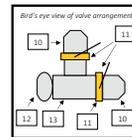
A floating cover is a practical alternative to a roof on an above-ground circular tank or lagoon. Available in sizes from 9 – 35m diameter, and bespoke design for lagoons these covers are customised for clients and fitted to Dutch BRM standard for slurry storage.

- All slurry stores should be covered
- Float system enables rainwater harvesting
- Cost-effective and durable
- Custom manufactured
- Rise and fall according to volume

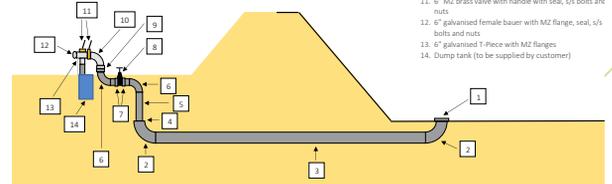
# 6 LINED LAGOONS



Unton and Robinson Environmental Ltd - Standard Discharge Station



1. 250mm flanged socket and backing ring with u/s bolts and nuts (seal with silica mastic)
2. 250mm PVC 90deg bend
3. 250mm PVC pipe
4. 250mm to 160mm reducer (socketed into 90deg bar)
5. 160mm PVC pipe
6. 160mm PVC 90deg bend
7. 160mm stub adapter and 160mm backing ring with gasket, u/s bolts and nuts
8. DN 150 cast iron wheel valve
9. 6" galvanised MZ flange and DN 150 along with 160mm stub adapter and 160mm backing ring with gasket, u/s bolts and nuts
10. 6" galvanised 90deg bend with MZ flange
11. 6" MZ brass valve with handle with seal, u/s bolts and nuts
12. 6" galvanised female bauer with MZ flange, seal, u/s bolts and nuts
13. 6" galvanised 1" Piece with MZ flanges
14. Dump tank (to be supplied by customer)



Please note drawing not to scale

Above arrangement may change depending on site

The foil membranes are factory made-to-measure with no on site welding thus reducing the risk of leakage and are a closed system solution to store slurry, polluted water, purified water, sludge, etc. This type of lagoon storage can be provided with or without a floating cover.

The lagoon is an excavated pit in the ground and the dikes are built from soil left after excavation. The depth of the pit depends on the groundwater level at the site location.

# 7 NETSILO TANKS



Netsilo systems are suitable for storage of all liquid volumes from 192m<sup>3</sup> to 1382m<sup>3</sup>. These liquids can be stored with optional floating cover. A concrete base is not required allowing for a quick installation and is easily movable to another site. The discharge station is used for filling and emptying the above ground tank and conforms to SAFFO requirements.

Two mixing solutions are available for the Netsilo system: A mixing hatch allowing access for hydraulic drive mixer on a telescope handler or a PTO drive impeller mixing system.

Storage sizes up to 2200m<sup>3</sup>

# 8 CURVEDSILO TANKS



The Curvedsilos is available in any RAL color.

Due to the flexible dimensions, the silo can be placed almost anywhere on any surface.

The tank construction is composed of sheets with a profile and arched in the right radius. The plates are connected to each other by special rounded bolts.

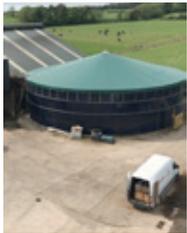
The galvanised sheets add an extra coating for protection make the silo a sustainable solution for the storage of manure.

## CHARACTERISTICS CURVEDSILO

- Higher steel quality S 350 GD for more strength and tank height up to 6.10 meters
- Newly developed metal coating (CORRENDER ZM), 70% less zinc use and higher rust resistance, no white rust
- Environmentally friendly chromatographic free coating

Storage sizes up to 1340m<sup>3</sup>

# 9 PERMASTORE TANKS



PermaStore's unbroken and unequalled heritage in the design, development, manufacture, and supply of premium modular bolted and coated containment solutions is traceable back to 1959.

PermaStore Ltd is the technical leader and an established, trusted global brand within the modular bolted containment and storage industry.



# 10 SLURRY BAGS



The self-supporting closed tank from Labaronne-Citaf is a flexible storage solution which is both practical and economical to use. Benefits include: people safety (no risk of falling in), value for money, moveable, low maintenance, durability, sizes available up to 2000m<sup>3</sup>.

The technical fabric is specifically developed for our range of flexible tanks used for agricultural effluents. The high tenacity woven polyester fabric is double-sided for better resistance to fermentation products. The special two-sided varnish finish is UV stabilised for maximum lifespan and is 100% recyclable.



# 11 SEPARATORS



## WHY INVEST IN A SLURRY SEPARATOR?

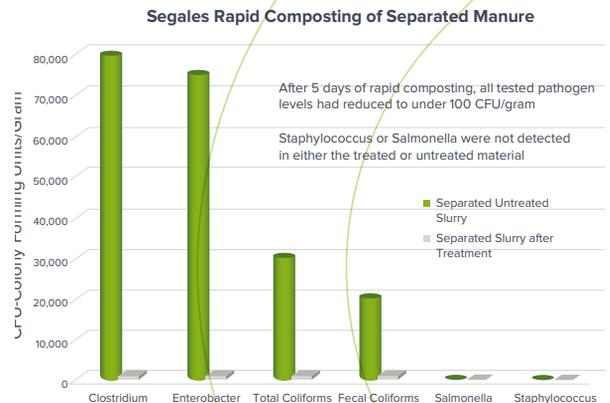
1. The separated liquid contains an increased level of nitrogen.
2. The separated liquid will not stain grass thus eliminating the risk of reduced intake when grazing.
3. No risk of gathering dried slurry when tedding silage.
4. Greater output from umbilical and low emission spreading systems.
5. The separated liquid fraction poses lower risk to waterways due to lowered phosphate content.
6. The volume of separated liquid reduces by 10% to 25% from the original volume.
7. Transport costs for separated solids are lower than transporting whole slurries.
8. The separated solid fraction can be used as a bedding material.
9. Qualifies for grant funding.

# 12 SANITISED BEDDING



## SANITISED COW BEDDING

**99% of harmful pathogens removed after 5 days of rapid composting.**



# 13 ACIDIFICATION



In the JH Acidification NH<sub>4</sub><sup>+</sup> system, sulfuric acid is added to slurry to reduce pH from about 7 to 5-6. When the pH value is lowered, ammonia NH<sub>3</sub> is converted to ammonium NH<sub>4</sub><sup>+</sup>.

Ammonium NH<sub>4</sub><sup>+</sup> does not evaporate but stays in the slurry as plant available-N. The treatment reduces ammonia evaporation by over 90% before going to storage and also during the application of slurry to fields.

# 14 PIPES & FITTINGS

**PRESSURE  
PIPE PVC-U  
GLUE PIPE AND  
FITTINGS  
(20mm –  
400mm)**



**HDPE FUSION  
WELD PIPE AND  
FITTINGS  
(25mm –  
315mm)**



**SLURRY  
VALVES,  
COUPLERS  
AND FITTINGS  
(Including  
Bauer, Perrot)**





## GET IN TOUCH

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