

BIRDIE

Floating modules for covering reservoirs and slurry storage tanks

MADE IN ITALY

valsir®

QUALITY FOR PLUMBING



Rectangular slurry tank with multiple sections - Fattori S.r.l. (Italy)

BIRDIE

Birdie is the ultimate form of floating systems for protecting reservoirs and slurry storage tanks.

Birdie is a floating module system for **covering and protecting reservoirs**. Compared to competing solutions, it uses less plastic - the HDPE modules are **made through blow molding**, a technology that allows for a **70% material savings** compared to injection molding - while covering the same surface area. It is more stable and heavier (the core of the modules is partially filled with water) and **unsinkable due to the hexagonal floating chamber**.



The system was designed with the purpose of **preserving basins and reservoirs**, preventing their depletion and degradation. The goal is not only to **prevent water loss from evaporation** but also to **reduce the proliferation of algae and bacteria, and to prevent the invasion of harmful species, which would lead to the formation of unpleasant odors and putrefaction gases**. The installation of the Birdie system could not be easier, extremely economical, and requires no maintenance.

MADE IN ITALY



Elliptical slurry tank - Fattori S.r.l. (Italy)

REASONS TO PROTECT RESERVOIRS AND SLURRY TANKS

The **Birdie system is a cutting-edge solution** for environmental management, capable of **reducing harmful gas emissions** while ensuring compliance with **Best Available Techniques (BAT)**, which are the best techniques available for minimizing the environmental impact of industrial activities.

Birdie eliminates the release of foul odors from slurry storage tanks and reduces water evaporation in reservoirs, optimizing water resource use. Additionally, **the system prevents the proliferation of pest insects** that can multiply in slurry storage tanks.

Choosing Birdie means adopting a sustainable and responsible approach.

Birdie reduces atmospheric emissions of gases such as ammonia NH_3 and methane CH_4 making the Birdie system **compliant with BAT** (Best Available Techniques).

Birdie eliminates the release of foul odors emitted from slurry storage tanks and **reduces water evaporation** in reservoirs.

The Birdie system also prevents the proliferation of pest insects, which can multiply in slurry storage tanks.

Management of slurry storage tanks

The regulations stipulate that by 2030, all facilities, whether new or existing, with tanks for collecting agricultural slurry and fermentation by-products, must be equipped with a cover to limit ammonia emissions, methane gas, and odors.

In this context, **Valsir offers the innovative Birdie system**, which helps achieve these goals by improving the management of slurry tanks, reducing evaporation, and contributing to better air quality.

This approach not only complies with regulations but also promotes a healthier and more sustainable environment.




BIRDIE

WHAT ARE THE ADVANTAGES?

Maximum accessibility: the reservoir remains accessible at any time without removing the modules.

Easy and quick: no equipment is needed to install the system; it can be installed in an empty tank and left in place in case the tanks are emptied.

Birdie can also be used in tanks that require the use of mixers, agitators, or air injectors.

It automatically adapts to level variations, regardless of the shape or size of the reservoir.

Maximum flexibility: the system can be easily removed and relocated to another reservoir.

The floating modules are **made of triple-layer HDPE**, with added additives for **exceptional UV resistance**.

The system is not affected in any way by the action of even extreme weather conditions.

Birdie is environmentally sustainable. It is made of one or more layers of **post-consumer recycled plastic, which can be fully recovered at the end of its life**.

Birdie is economically sustainable, unlike traditional covering systems, **reducing installation and maintenance costs**.

It is **extremely durable**, with an expected lifespan of **over 25 years**.

Main Applications

- **Agriculture:** Birdie finds its natural application in **tanks and reservoirs for irrigation**, wastewater, and slurry collection.
- **Construction:** In public and municipal works, it is applicable in **tanks and reservoirs for water treatment, airport reservoirs, water storage tanks, retention basins, or rainwater collection tanks**.
- **Extraction:** Another **area of application** for the Birdie system is **mining** (water treatment tanks in the production of coal, gold, copper, and uranium) and **oil industry** (tanks for water used in oil and natural gas fracking).



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