

E-Ball® Floating Tank and Lagoon Cover System

Siemens Water Technologies has developed the E-Ball® system to provide a simple and maintenance-free method to cover ponds or tanks to reduce heat loss and evaporation rate, control algae growth, reduce odors and VOC emissions, and prevent birds from using airport pond sites. Siemens Water Technologies offers the E-Ball® floating tank and lagoon cover as a stand alone product or in combination with our floating surface aerators and mixers to provide a complete equipment solution for many water and wastewater applications.

The E-Ball® system is made of individual hollow plastic ball components that are used to create a floating air blanket to cover virtually any water surface. The low thermal conductivity of plastic combined with the air held in the ball creates a thermal insulation barrier over the water surface.

E-Ball® system components form a close-packed configuration and cover over 90% of the water surface, and automatically stack up or spread out in sloped basins to maintain total surface coverage as the water level changes.

A variety of sizes, weights, and materials of construction are available. Our standard E-Ball® component is constructed of polyethylene and is 100 mm (4 inches) in diameter and weighs up to 200 grams. The heavy weight is attributed to its thick wall construction, yet the ball is hollow and floats with about 40-50% of the ball surface submerged to optimize the insulating effect and minimize the chance of the ball blowing out of the tank. In addition, the heavy weight construction makes the E-Ball® component extremely durable and totally maintenance-free. It will not leak or sink, and eliminates the need for plugs, seals, or water ballast. Installation is as easy as dumping the balls into the tank. Ultraviolet stabilizers are added to protect the plastic from the degrading effect of sunlight.

Siemens Water Technologies offers the E-Ball® system in combination with any aeration or mixing device to improve the performance of biological treatment processes. For example, Aqua-Lator® floating surface aerators and mixers provide oxygen transfer and mixing in equalization tanks, biological nutrient removal applications, activated sludge processes, and aerated lagoons. Floating E-Ball® components are combined with aerators and mixers to cover the water surface to retain heat and control odors and algae growth.

The combination of aerators and mixers with the E-Ball® components leads to improved biological treatment performance and consistent high-quality effluent.



Reduce chemical emissions.

Data Sheet

Water Technologies

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Features:

- The E-Ball® components have a thick wall construction, yet the ball is hollow and floats with about 40-50% of the ball surface submerged to optimize the insulating effect and minimize the chance of the ball blowing out of the tank
- Heavy weight construction makes the E-Ball® components maintenance free and virtually indestructible and eliminates the need for plugs, seals, or water ballast
- Automatically stack up or spread out in sloped basins to maintain total surface coverage as the water level changes, and conform to the shape of structures
- Totally maintenance free with quick and easy installation
- Heating costs reduced by up to 75%
- Reduces evaporation loss by up to 90%
- Allows normal movement of equipment through the liquid and does not impede installation of monitoring probes for water sampling
- UV stabilizers protect the plastic from damage by ultraviolet rays

Applications:

- Reduces heat loss in industrial tanks or in wastewater treatment applications to optimize biological treatment performance during cold weather
- Significantly reduces chlorine dosage in chlorine contact tanks
- Dramatically reduces sunlight penetration to control algae growth
- Provides odor control
- Provides evaporation control and reduces emission of corrosive vapors
- Covers de-icing fluid collection ponds to prevent birds from using airport sites



The floating balls are pushed away and stacked up by the aerator spray.



The floating balls recover to a single layer when the aerator is turned off.



75% energy savings using E-Ball® floating tank cover.

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