



Water Engineering & Research Solutions

ResMix 1000

*Purpose-designed high-flow,
low-powered solution.*

The ResMix 1000 system is the market leader in maintaining water quality in small lakes and reservoirs, sewage treatment plants and polishing ponds from 15ML – 1,000ML. Engineered by WEARS Australia, the ResMix 1000 has been designed and manufactured in Australia.

It is a purpose-designed high-flow, low-powered system, with a proven track record over 20 years that is easily installed as a single unit or in multiple unit applications as required. It minimises evaporation and eliminates dead zones in water reservoirs maintaining uniform chemistry.

Constructed from inert, non-corrosive materials, the ResMix 1000 has a life span in excess of 25 years.

Advantages of the ResMix 1000 over other alternatives

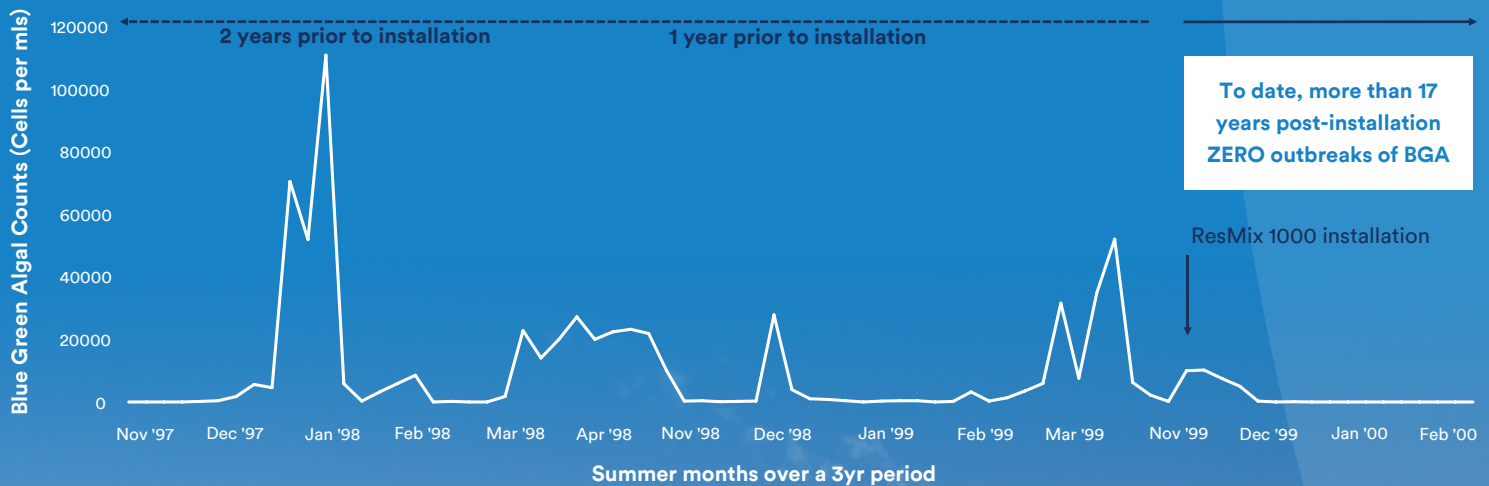
- Eliminates stratification producing a consistent water column.
- Controls biota outbreaks including Blue Green Algae.
- Increases Dissolved Oxygen (DO) and produces uniform water quality.
- Energy efficient - uses 90% less energy than traditional horizontal flow systems.
- Provides Low Capex and Opex solutions for traditionally expensive applications.
- Resolves issues with short design, construction and installation lead times.
- SCADA reports and feedback.

The results

The ResMix 1000 has been shown to be a cheaper, sustainable and effective solution to managing and preventing cyanobacteria such as Blue Green Algae (BGA) when compared with other products and chemical treatments available.

Elimination of Blue Green Algae

ResMix 1000 - Blue Green Algal Counts during summer pre- and post-installation



Data captured over the summer months pre- and post-installation of the ResMix system show outbreaks of Blue Green Algae (BGA) in the water reservoir in the years prior to installation. The ResMix system, installed in 1999 has resulted in zero occurrences of BGA in this reservoir since – more than 17 years.



How it works

The ResMix 1000 is a small surface-mounted axial flow pump that is integrated into a fully engineered floating pontoon. It is easily installed without impacting the structural integrity of the reservoir.

Pumping water down, it circulates large volumes of water at a low velocity with very low energy consumption. By doing so, the ResMix 1000 pumps the oxygen rich surface water to a designed depth, mixing it with the deeper water to resolve thermal stratification issues.

The dispersion of water that the ResMix 1000 creates, assists in overcoming stratified stagnant zones, penetrating it with highly oxygenated water – reducing the need for excessive use of chemical sterilisation at water treatment plants.

ResMix 1000 Product Specifications

Variable flow rate	Up to 40,000L/min
Power consumption	1kW/hr
Diameter	2400mm
Weight	Approx. 280kg
Blade diameter	1200mm
Materials	
• Unit and coupling	Moulded HDPE and stainless steel
• Blades	Potable water approved bronze casting
• Floats	Integrated HDPE
• Motor	SEW-Eurodrive epoxy coated
Reservoir size	Up to 1000ML
Effective life	25 years
Maintenance period	3-yearly

Compliant with Australian Standards for Electrical and Manufacturing under AS3000



WEARS Australia provides researched and engineered, cutting-edge solutions for water resource management.

From the laboratory to water storage, WEARS' expertise is in tailoring solutions to reliably ensure that water provided to consumers is consistent, clean, clear, fresh and contaminant-free.



Contact us to find out more about our cutting-edge solutions, or to arrange a complimentary consultation.

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***Sustainable solutions
for water management***

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