

SURFACE AERATOR



Apex Surface Aerators for Pond Treatment

Apex Environmental is proud to offer a locally made low cost solution for aeration of wastewater ponds. The Apex surface aerator is hydraulically designed to achieve maximum efficiency and is manufactured in high grade stainless steel and Kevlar® with a tropicalized WEG motor with upgraded seals.

The aerator's powerful pump and efficient shape disperses oxygen over a wider surface area of the pond, forcing the oxygen down into the wastewater. The result is a high level of oxygen transfer that is efficiently mixed and dispersed to provide effective wastewater treatment and minimise release of odours.

Benefits

- Manufactured in New Zealand
- Low shipping costs
- Fast delivery time (typically 4-6 weeks)
- Robust and designed for maximum oxygen transfer efficiency to minimise operating as well as capital costs
- IP66 premium efficiency WEG motor with nanotech hydrophobic moisture protection
- High quality stainless steel impeller and shaft
- Buy direct from the manufacturer

Real world testing has shown that the Apex surface aerator has approximately twice the efficiency of aspirating aerators.



Specifications

Model	kW	Float Diameter	Oxygen Transfer Rate
Apex 7	7.5	1.5 metre	10kg/hr
Apex 22	22	2.2 metre	28kg/hr
Apex 45	45	3 metre	58kg/hr
Apex 75	75	3 metre	97kg/hr

* SOTR values in clean fresh water, 20°C.

Non-slip surface on centre of float for safe maintenance access on larger aerators

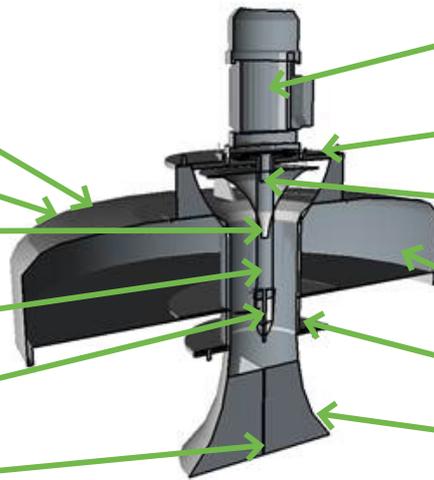
Kevlar® float shell is 5x stronger than steel weight for weight

Rotating cone deflects water away from motor

Heavy duty stainless steel shaft

High efficiency stainless steel impeller

Flow straightening cross to boost flow



Premium efficiency, water resistant electric motor as standard

Large deflector plate to protect motor

Labyrinth seal to protect motor

Foam filled Kevlar® float remains buoyant even if punctured

Heavy duty stainless steel throat

Efficient hydraulically designed inlet cone draws water from deep in the pond



Case Study

A large dairy factory located in the North Island of New Zealand installed multiple Apex surface aerators in mid-2014. The result for the client was an aerator that performed twice as efficiently as their previous aerators therefore enabling them to process more wastewater and eliminate nuisance odour emissions from their pond. The treated wastewater from the Apex SBR pond is decanted into a holding pond from where the water is drawn for irrigation.

In today's world we recognise the need to take responsibility for our environment seriously and water is high on the list of priorities. Apex Environmental is driven by a passion to help industry grow sustainably by providing the very best in wastewater treatment.

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